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Pesticides DOCUMENTATION BULLETIN

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Volume 4 Number 23
November 8, 1968

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PESTICIDES DOCUMENTATION BULLETIN

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Volume 4
November 8, 1968
Number 23

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
Associated documentation

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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*This issue does not contain citations under this category.

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20942-68
CONTROL OF CATERPILLARS ON LATE CABBAGE IN CENTRAL ONTARIO AND WESTERN QUEBEC, 1958-1959.
L M Cass
Entomol Soc Ontario Proc 91:49-52
1960 420 ON8
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M Privora D Novak
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R H Foote
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E Franz
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Entomologists, Entomology, History.
A complete history of the Senckenberg Museum's Entomology section is given, from 1822 thru today. A chronologic list of personnel and their work is supplied.

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P J M Greenslade
Roy Entomol Soc London Trans 120(PT.2):39-54 REF
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Altitude, Carabidae, Ecology, Zoogeography.

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N D Jago
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M A Lieftinck
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D R Ragge R Roy
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R zur Strassem
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H Wiehle
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Arachnida, Catalogs, Insect taxonomy, Spiders, Zoogeography.

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R H Anderson
S Afr J Agr Sci 11(2):383-387
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SOME EFFECTS OF MICROBIAL PATHOGENS ON INSECTS.
T A Angus
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1960 420 ON8
Entomology, Fungi, Insect diseases, Parasitism, Protozoa.

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J S Balan
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1967 421 P69
Bemisia tabaci, Color, Cotton, Insect pests, Insect physiology, Lighting.

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ON THE ACTIVITY OF JUVENILE HORMONES: ELECTRO-PHYSIOLOGICAL MEDIUM AT THE CELL MEMBRANE OF THE SALIVARY GLAND OF GALLERIA MELLONELLA.
G Baumann
J Insect Physiol 14(10):1459-1476
Oct 1968 421 J825
Cells, Electricity, Galleria mellonella, Hormones, Insect physiology, Salivary glands (insects).

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FROM THE TROPICAL RAIN FOREST OF THE AMAZON II. (ge)
L Beck
Notur Mus 98(2):71-80 REF
Feb 1968 509 F856
Arachnida, Insect ecology, Pedipalpida.

The author continues his discussion of tropical insects. Whip scorpions (Pedipalpi),whip tails, tiny relatives of the whip scorpions, and hooded spiders, rare Arachnids, are described and discussed.

20980-68
FROM THE TROPICAL RAIN FOREST OF THE AMAZON I. (GE)
Beck
Natur Mus 98(1):24-32
01 Jan 1968 509 F856
Cerambycidae, Chelonethida, Cicadidae. Part II in vol. 98(2):71-81, Feb. 1968

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H C Bennet-clark A W Ewing
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Drosophila melanogaster, Insect behavior, Reproduction, Research, Sex behavior, Vibration.

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Insect physiology, Schistocerca gregaria, Sex, Vegetation.

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Noture 215(5096):96
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B N Burkett H A Schneiderman
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Experimental insects, Humidity, Insect ecology, Insect physiology, Muscles, Neurology, Research, Spiracles, Temperature.

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D G Campion I Butram
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Breeding, Chemical control (insects), Chemosterilants, Diparopsis castanea, Reproduction, Sex attractants, Sterility, Tepa.

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P S Chen
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Biochemistry, Culex pipiens molestus, Culex pipiens quinquefasciatus, Electrophoresis, Hemolymph, Insect eggs, Proteins.

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X-RADIATION OF ONCOMELANIA FORMOSANA, SNAIL HOST OF SCHISTOSOMA JAPONICUM. EFFECT ON REPRODUCTIVITY AND MORTALITY.
L W Chi F Boeller
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Insect physiology, Mortality, Radiation, Reproduction, Snails, Sterility, X-rays.

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W J Collins A J Forgash
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Acrylamide, Electrophoresis, Esterases, Gels, Insect physiology, Musca domestica.

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Calliphora vicina, Insect anatomy, Insect physiology, Larvae, Muscles.

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Oct 1968 421 J825
Abies balsamea, Amino acids, Choristoneura fumiferana, Feeding, Insect physiology, Larvae, Picea glauca, Picea rubens.

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P F Entwistle J S Robertson B E Juniper
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1968 Q0P501.0A2
Bees, Insect anatomy, Insect flight, Insect physiology, Measurement, Mechanization, Muscles, Wings (insects).

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Biological control (insects), Economics, Experimental insects, Pheromones, Population, Research, Sex, Trichoplusia ni.

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A M Heimpel
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Biochemistry, Body fluids, Hydrogen-ion concentration, Insect diseases, Research.

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Y Horie S Nakasone
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Oct 1968 421 J825
Biological assay, Biotin, Bombyx mori, Diet, Fatty acids, Insect nutrition.

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INSECT DISEASES RESULTING FROM MALNUTRITION.
H L House
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1960 420 ON8
Amino acids, Carbohydrates, Deficiency diseases, Insect diseases, Insect metabolism, Insect nutrition, Lipids, Proteins, Starvation, Vitamins.

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J Insect Physiol 14(9):1215-1220 REF
Sep 1968 421 J825
Chromatography, Extracts, Insect physiology, Lipids, Queen bees, Thorax, Vespa orientalis.

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Antheraea eucalypti, Arboviruses, Assay, Cells, Insect physiology, Insect vectors, Research.

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Biochemistry, Chemical control (insects), Chloroquine, Epidemiology, Immunity, Insect vectors, Malaria control, Plasmodium falciparum.

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Aedes aegypti, Culex quinquefasciatus, Epidemiology, Human diseases, Insect vectors, Research, Venezuelan equine encephalitis virus, Virus diseases (animals).

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Cycloguanil pamoate, Dosage, Drug therapy, Human diseases, Injections, Leishmaniasis, Parasitism.

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Feces, Infectious diseases, Insect vectors, Rats, Urine, Venezuelan equine encephalomyelitis, Virus diseases (animals).

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Biological assay, Greenhouses, Plant nutritional deficiencies, Potassium, Research, Soils, Sugar beets.

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R S Chetram W Heydecker

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Agricultural research, Beets, Gibberellins, Harvesting injuries, Humidity, Seed germination.

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Botrytis cinerea, Conidia, Dianthus caryophyllus, Flowers, Immunization, Polyethylene, Seed germination.

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Aldrin, Biological assay, Collembola, Dieldrin, Elateridae, Insecticides, Mites, Organophosphorus compounds, Soil fauna, Wheat.

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Cysts, Heterodera rostochiensis, Larvae, Nematodes, Plant ecology, Potatoes, Roots.

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Aphididae, Aphis fabae, Demeton, Insecticide application, Methyl, Spraying, Sugar beets, Yellows.

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Oct 1967 442.8 AN72
Chloroethyl)trimethylammonium chloride, (2-, Gibberellins, Plant physiology, Plant regulators, Potatoes, Succinic acid, 2,2-dimethylhydrazide.

Abstract: The effects of CCC and B9 on the growth habit of potato differed between varieties. CCC dimished stem lengths and dry weight more than B9 because Ccc was applied early when shoots emerged from the soil, but B9 was applied about 3 weeks later when several leaves had formed.

21075-68
LEAF BLADE FOLDING AND MOTOR CELLS OF SOME BLUE GRASSES. (JA
E Iwata
Gifu Univ Fac Agr Res Bull (24):327-337
1967 107.6 G364
Behaviorism, Cells, Irrigation, Leaves, Measurement, Microscopy, Plant ecology, Plant water relations, Poa annua, Poa pratensis, Research. English summary.

21076-68
THE INFLUENCE OF INDOL-3YL ACETIC ACID AND SUGAR ON THE PATTERN OF INDUCED DIFFERENTIATION IN PLANT TISSUE CULTURE.
R A Jeffs D H Northcote
J Cell Sci 2(1):77-88
Mar 1967 QH301.J6
Biology, Cytology, Indolebutyric acid, Kidney beans, Radioactivity, Sugar, Vascular system (plants).

21077-68
SOME CURRENT PROBLEMS IN PLANT PROTECTION.
M I Kabachnik
USSR Sci Abs (65):109
19 Nov 1968 241.64 UN333
Insect pests, Pesticides, Plant diseases, Plant protection.

21078-68
STUDIES ON IRRIGATION FOR HERBAGE GRASS. II. ON THE EFFICIENCY OF WATER USE BY ORCHARD GRASS AND LADINO CLOVER. (JA)
Z Kato T Nishide K Ota I Kawase
Gifu Univ Fac Agr Res Bull (24):193-203
1967 107.6 G364
Forage plants, Grasses, Irrigation, Ladino clover, Plant physiology, Research, Soil moisture. English summary.

21079-68
THE ROLE OF WOUNDS IN THE INFECTION OF ORANGES BY PENICILLIUM DIGITATUM SACC.
J A Kavanagh Wood
Ann Appl Biol 60(3):375-383
Dec 1967 442.8 AN72
Citric acid, Conidia, Injuries, Oranges, Penicillium digitatum.

21080-68
SOME FACTORS IN RESISTANCE OF CITRUS TO PHYTOPHTHORA SPP.
L J Klotz W P Bitters T A DeWolfe M J Garber
Plant Dis Rep 52(12):952-955
Dec 1968 1.9 P69P
Citrus, Fungus diseases (plants), Phytophthora, Plant protection, Research, Soils, Tables (data).

21081-68
STUDIES ON THE MOVEMENT OF SOIL WATER. II. ON THE MEASUREMENT OF THE FREE WATER IN THE SOIL OF EVERY KIND BY THE FREEZING POINT DEPRESSION METHOD AND ITS SELF-RECORDING. (JA
M Kobayashi T Furuta
Gifu Univ Fac Agr Res Bull (24):204-211
1967 107.6 G364
Measurement, Melting points, Methodology, Research, Soil moisture, Water analysis. English summary.

21082-68
HERBICIDE RESIDUES IN CALIFORNIA AGRICULTURAL SOILS.
A Lange B Fischer W Humphrey W Seyman K Baghott
Calif Agr 22(8):2-4
Aug 1968 100 C12CAG
Chemicals, Crops, Herbicide residues, Plant regulators, Research, Soils.

21083-68
PESTICIDES AND THE WASHINGTON SCENE. REPORT, 1966 MEETING, NOVEMBER 30, 1966. WASHINGTON. SB951.0M42.
L A McLean
14 P. REF
30 Nov 1966
Biochemistry, Chemical control (pests), Pesticides, Reports.

21084-68
CALIFORNIA RICE GROWERS SEEK HELP TO REDUCE AIR POLLUTION.
J R Miller
Rice J 71:23-26
Oct 1968 59.8 R36
Air pollution, Crop yields, Environment, Research, Rice, Weather forecasting.

21085-68
INHERITANCE OF REACTION TO LEAF RUST IN VULGARE WHEAT IN THE U.A.R.
A A M Omar A K A Sclim A S A Gomaa
An Agr Sci 9(2):139-154 REF
Dec 1964 24 AN72
Epidemiology, Fungus diseases (plants), Leaf rust (wheat), Plant disease resistance, Research, Spraying, Water. Arabic summary

21086-68
EFFECT OF B-INDOLYLACETIC ACID ON THE GROWTH AND THE AUXIN CATABOLISM OF LACTOBACILLUS BULGARICUS.
P E Pilet B Blanc
Nature 217(5125):285-287 REF
20 Jan 1968 472 N21
Culture media, Indoleacetic acid, Lactobacillus bulgaricus, Metabolism, Oxidases, Physiology, Plant hormones, Research.

21087-68
EFFECTS OF ALAR AND TOP REMOVAL ON YIELD OF FRESNO STRAWBERRIES AT THREE DIGGING DATES.
R E Puffer V Voth H J Bowen R H Gripp
Calif Agr 22(2):11-13
Feb 1968 100 C12CAG
Research, Soil analysis, Strawberries, Succinic acid, 2,2-dimethylhydrazide.

21088-68
WORLD STATUS OF THE PLANT-PROTECTING AGENT INDUSTRY AND RESEARCH WITH SPECIAL REFERENCE TO HUNGARIAN CONDITIONS. (JPRS 42,586) TRANSL. I6933.
B Raskai
12 P.
13 Sep 1967

Industry, Insect pests, Plant diseases, Plant injuries, Plant protection, Research, Surveys, Weeds, World agricultural situation. Translated from Magyar Kemikusok Lapja 10-11:577-582, 1964. issued by CFSTI.

21089-68
PLASTIC FILM TUBE CLOSURES IN THE CONSERVATION OF FUNGAL CULTURES.
C Reynolds W Lock
Plant Dis Rep 52(12):961-962
Dec 1968 1.9 P69P
Culture media, Equipment, Fusarium oxysporum, Poria weirii, Research.

21090-68
THE EFFECT OF A POST-HARVEST HEAT-TREATMENT ON THE STORAGE BEHAVIOUR OF COX'S ORANGE PIPPIN APPLE FRUITS.
R O Sharples
Ann Appl Biol 59(3):401-406
Jun 1967 442.8 AN72
Apples, Gloeosporium, Heat, Plant physiological diseases, Storage diseases, Water analysis.

21091-68
PRODUCTION OF AUXIN BY DETACHED LEAVES.
A R Sheldrake D H Northcote
Nature 217(5124):195
13 Jan 1968 472 N21
Amino acids, Bacteria, Epiphytes, Indoleacetic acid, Kidney beans, Leaves, Oats, Peptides, Plant hormones, Research, Sampling (statistics).

21092-68
AFLATOXINS B1,B2,G1, AND G2: SEPARATION AND PURIFICATION.
R D Stubblefield O L Shotwell G M Shannon
J Amer Chem 45(10):686-688 REF
Oct 1968 307.8 J82
Aflatoxin, Aspergillus flavus, Chromatography, Research, Rice, Silicic acid, Sterilization, Wheat.

21093-68
EFFECT OF PENTACHLORONITROBENZENE ON QUALITY OF POTATOES.
J P Sweeney V J Chapman P A Hepner
Amer Potato J 45(10):383-390 REF
Oct 1968 75.8 P842
Crop yields, Pentachloronitrobenzene, Potatoes, Research, Soil testing, Storage. French summary

21094-68
STUDIES ON PLANT GROWTH-REGULATING SUBSTANCES. XXV. THE PLANT GROWTH-REGULATING ACTIVITY OF CINNAMIC ACIDS.
E N Ugochukwu R L Wain
Ann Appl Biol 61(1):121-130 REF
Feb 1968 442.8 AN72
Biochemistry, Cinnamic acid compounds, Peas, Wheat.

DISEASES

21095-68
SURVIVAL TIME OF EXOCORTIS VIRUS OF CITRUS ON CONTAMINATED KNIFE BLADES.
R M Allen
Plant Dis Rep 52(12):935-939
Dec 1968 1.9 P69P
Environment, Exocortis (citrus), Research, Tools, Virus diseases (plants).

21096-68
CRITICAL CONSIDERATIONS FOR THE TRANSLOCATION OF VIRAL NUCLEOPROTEINS INTO PLANTS.
E Baldacci E Betto G G Conti G Vegetti
Riv Patol Veg 4(2):251-262
Oct 1966 464.8 R52
Biological transport, Nucleoproteins, Reproduction, Research, Viral vaccines, Virus diseases (plants). English summary

21097-68
DIFFERENT RESULTS FROM THE SELECTION OF VIRUS FREE GRAPES.
E Baldacci G Belli
Riv Patol Veg 4(3):263-267
Oct 1967 464.8 R52
Fanleaf (grapes), Germ-free life, Grapes, Leaf roll (grapes), Rescarch, Virus diseases (plants). English summary

21098-68
VAPOUR ACTION OF FUNGICIDES AGAINST POWDERY MILDEWS.
K J Bent
Ann Appl Biol 60(2):251-263
Oct 1967 442.8 AN72
Chemical control (plant diseases), Cucumbers, Fungicides, Leaves, Plant growth inhibitors, Powdery mildew, Seed germination, Vapors.

21099-68
GRAY MOLD OF GREEN ONIONS ON THE MARKET.
L Beraha
Plant Dis Rep 52(12):974-975
Dec 1968 1.9 P69P
Botrytis allii, Distilled water, Environment, Gray mold, Injections, Onions, Plant protection, Research, Sodium hypochlorite.

21100-68
FREEZING AND THAWING OF THE SUSPENSION TO PURIFY THE INFECTIOUS TOBACCO MOSAIC VIRUS.
E Betto G G Conti G Vegetti
Riv Patol Veg 4(3):309-321
Oct 1967 464.8 R52
Distilled water, Mosaic (tobacco), Nucleoproteins, Research, Virus diseases (plants). English summary

21101-68
POTATO LEAF ROLL VIRUS TRANSMISSION AS AFFECTED BY PLANT LOCALITY.
G W Bishop
Amer Potato J 45(10):366-372 REF
Oct 1968 75.8 P842
Correlation, Insect control, Leaf roll (potatoes), Myzus persicae, Plant translocation, Research, Virus diseases (plants).

21102-68
STUDIES ON THE INFLUENCE OF LEAF WASHINGS ON INFECTION BY MYCOSPHAERELLA LIGULICOLA.
J P Blakeman
Ann Appl Biol 61(1):77-88 REF
Feb 1968 442.8 AN72
Chrysanthemum, Dialysis, Fungus diseases (plants), Heating, Leaves, Mycosphaerella, Plant physiology.

21103-68
STRAINS OF PRUNUS,NECROTIC RINGSPOT VIRUS IN HOP (HUMULUS LUPULUS L.).
K R Bock
Ann Appl Biol 59(3):437-446 REF
Jun 1967 442.8 AN72
Apples, Centrifuges, Cherries, Hops, Mosaic (arabis), Necrotic ring spot (prunus), Nettlehead (hops), Serological tests, Sucrose.

21104-68
INFLUENCE OF DIRECT-DRILLING OF WINTER WHEAT ON INCIDENCE OF TAKE-ALL AND EYESPOT.
D H Brooks M G Dawson
Ann Appl Biol 61(1):57-64
Feb 1968 442.8 AN72
Cercosporella herpotrichoides, Chemical control (plant diseases), Fungus diseases (plants), Herbicides, Ophiobolus, Paraquat, Tillage, Wheat.

21105-68
ZINC DEFICIENCY SYMPTOMS OF BEANS.
J W Brown G E Leggett
Pacific Northwest Fert Conf Proc 18:165-172
Jul 1967 57.9 P11
Beans, Deficiency diseases, Harvesting, Research, Tables (data), Zinc.

21106-68
SOME OBSERVATIONS ON THE ECONOMIC IMPORTANCE OF SUGAR-BEET DOWNY MILDEW IN ENGLAND.
W J Byford R Hull
Ann Appl Biol 60(2):281-296 REF
Oct 1967 442.8 AN72
Beets, Crop yields, Downy mildew, Economics, Fungi, Mangel-wurzel, Plant diseasc transmission, Plant diseases, Seeds, Sugar beets.

21107-68
MECHANICAL TRANSMISSION OF CITRUS INFECTIOUS VARIEGATION FROM THE CITRUS OF A NEW HOST WEED.
A Catara S Grasso
Riv Patol Veg 4(3):269-283
Oct 1967 464.8 R52
Citrus, Infectious variegation (oranges), Injections, Insect pests, Seedlings, Virus diseases (plants), Weeds. English summary

21108-68
HOST RANGE AND VARIATION IN VIRULENCE OF MYCOSPHAERELLA LIGULICOLA.
C G C Chesters J P Blakeman
Ann Appl Biol 60(3):385-390
Dec 1967 442.8 AN72
Chrysanthemum, Fungus diseases (plants), Microorganisms, Mycosphaerella, Plants, Pyrethrum, Virulence.

21109-68
DISTRIBUTION OF PEANUT STUNT VIRUS IN WHITE CLOVER IN SOUTH CAROLINA AND ITS RELATIONSHIP TO PEANUT CULTURE.
D Choopanya
Plant Dis Rep 52(12):926-928, MAP
Dec 1968 1.9 P69P
Culture media, Peanuts, Stunt, Surveys, Tables (data), Virus diseases (plants), White clover.

21110-68
ELIMINATION OF POTATO VIRUS X IN THE POTATO VARIETY DIANELLA. (DA)
M Christensen
Tidsskr Plant 72(2):241-244 REF
1968 11 T439
Heat, Plant protection, Potatoes, Virus diseases (plants), Virus x (potatoes). English summary

21111-68
THE TRANSFER OF BLUE MOLD RESISTANCE TO TOBACCO FROM NICOTIANA DEBNEYI: PT II, CHROMOSOME STUDIES.
E E Clayton H E Heggestad J J Grosso L G Burke
Tobacco 165(6):25
11 Aug 1967 286.89 T552
Chromosomes, Downy mildew (tobacco), Meiosis, Nicotiana debneyi, Rcscarch, Tobacco.

21112-68
SCREENING TRIALS OF MATERIALS FOR SUPPRESSING SPORE PRODUCTION BY GLOEOSPORIUM PERENNANS ON APPLE TREES.
A T K Corke
Ann Appl Biol 60(2):241-249
Oct 1967 442.8 AN72
Apples, Biochemistry, Canker, Fungicides, Gloeosporium, Plant budding, Plant disease transmission, Trees.

21113-68
THE ADAPTATION OF TOMATO MOSAIC VIRUS TO RESISTANT TOMATO PLANTS.
J R O Dawson
Ann Appl Biol 60(2):209-214 REF
Oct 1967 442.8 AN72
Breeding, Immunization, Mosaic (tomatoes), Plant disease resistance, Plant disease transmission, Plant genetics, Virus diseases (plants).

21114-68
SPREAD OF NECROTIC RINGSPOT VIRUS IN A SOUR CHERRY ORCHARD.
J W Demski J S Boyle
Plant Dis Rep 52(12):972-974
Dec 1968 1.9 P69P
Crop yields, Necrotic ring spot (cherries), Orchidaceae, Plant protection, Research, Sour cherries, Virus diseases (plants).

21115-68
BIOCHEMICAL CHANGES IN INFECTION DROPLETS CONTAINING SPORES OF BOTRYTIS SPP. INCUBATED IN THE SEED CAVITIES OF PODS OF BEAN (VICIA FABA L.).
B J Deverall
Ann Appl Biol 59(3):375-387 REF
Jun 1967 442.8 AN72
Amino acids, Beans, Botrytis, Botrytis cinerea, Broadbeans, Fructose, Fungicides, Galacturonic acid, Glucose, Sucrose.

21116-68
STUDIES ON THE SURVIVAL OF MYCOSPHAERELLA PINODES AND ASCOCHYTA PISI.
C H Dickson J J Sheridan
Ann Appl Biol 62(3):473-483 REF
Dec 1968 442.8 AN72
Ascochyta pisi, Fungus diseases (plants), Hibernation, Laboratories, Microorganisms, Mycosphaerella pinodes, Research, Soils.

21117-68
RESULTS OF SEVERAL YEARS OF EXPERIMENTS CONCERNING RESISTANCE TO LOOSE SMUT IN SPRING WHEAT AND SPRING BARLEY. (GE)
R Diercks R Klewitz
Nachrichtenbl Deut Pflanzenschutzdienstes 20(5):70-72
May 1968 442.9 B832
Breeding, Injections, Plant disease resistance, Research, Smut (barley), Smut (wheat). English summary

21118-68
EFFECT OF SOIL FUMIGANTS ON FUSARIUM WILT AND NODULATION OF PEAS (PISUM SATIVUM L.).
D L Ebbels
Ann Appl Biol 60(3):391-398 REF
Dec 1967 442.8 AN72
Chloropicrin, Dazomet, Formaldehyde, Fusarium, Peas, Pisum sativum, Rhizobium, Soil fumigation, Wilt.

21119-68
INFECTION OF XANTHIUM PUNGENS BY SEEDBORNE VERTICILLIUM DAHLIAE.
G Evans
Plant Dis Rep 52(12):976-978
Dec 1968 1.9 P69P
Fungus diseases (plants), Greenhouses, Research, Seedlings, Soil structure, Verticillium dahliae, Xanthium pungens.

21120-68
INHERITANCE OF CROWN RUST RESISTANCE IN AVENA STERILIS. (ABSTRACT).
G Fleischmann R I H McKenzie
Can J Genet Cytol 10(3):762
Sep 1968 443.8 C16
Crown rust (avena sterilis), Fungus diseases (plants), Genetics, Inheritance, Plant disease resistance. Genetics Society of Canada annual meeting May 15-17,1968

21121-68
PHYTOPHTHORA (PHYTOPHTHORA MEGASPERMA) ROOT ROT OF ALFALFA.
F I Frosheiser
Minn Sci 24(4):10
1968 100 M668
Alfalfa, Crop yields, Environment, Fungus diseases (plants), Greenhouses, Phytophthora megasperma, Soil moisture, Surveys.

21122-68
THE EFFECT OF ROSETTE VIRUS ON FLOWERING IN THE GROUNDNUT (ARACHIS HYPOGAEA L.).
R W Gibbons A C Turley
Rhodesia, Zambia, Malawi J Agr Res 5(2):139-143
Jul 1967 24 R3472
Peanuts, Plant physiology, Reproduction, Rosette, Tables (data), Virus diseases (plants).

21123-68
BROAD-BEAN STAIN AND TRUE BROAD-BEAN MOSAIC VIRUSES.
A J Gibbs G Giussani-Belli H G Smith
Ann Appl Biol 61(1):99-107 REF
Feb 1968 442.8 AN72
Broadbeans, Mosaic, Ribonucleic acid, Serological tests, Virus diseases (plants).

21124-68
MIMOSA WILT FUSARIUM CARRIED IN SEED.
D L Gill
Plant Dis Rep 52(12):949-951
Dec 1968 1.9 P69P
Albizia julibrissin, Fusarium oxysporum, Injections, Mimosa, Plant translocation, Research, Seedlings, Wilt.

21125-68
A RUST OF TOBACCO IN RHODESIA.
W F T Hartill
Rhodesia, Zambia, Malawi J Agr Res 5(2):189
Jul 1967 24 R3472
Fungus diseases (plants), Plant physiology, Puccinia, Rust, Tobacco.

21126-68
FINE STRUCTURE OF THE RICE BLAST. II. ELECTRONMICROGRAPHS OF THE INITIAL INFECTION.
Y Hashioka H Ikegami O Horino T Kamei
Gifu Univ Fac Agr Res Bull (24):78-90 REF
1967 107.6 G364
Blast (rice), Cells, Fungi, Fungus diseases (plants), Research. Japanese summary

21127-68
VIABLE SEPTORIA SPP. IN CELERY SEED SAMPLES.
P D Hewett
Ann Appl Biol 61(1):89-98
Feb 1968 442.8 AN72
Agar, Celery, Culture media, Injections, Reproduction, Seedlings, Septoria.

21128-68
RUSSET CRACK; A MENACE TO THE SWEET-POTATO INDUSTRY. II. NATURAL TRANSMISSION.
E H Hilbebrand
Plant Dis Rep 52(12):967-971
Dec 1968 1.9 P69P
Crop losses, Insect vectors, Myzus persicae, Research, Russet crack (sweetpotatoes), Sweetpotatoes, Trialeurodes abutilonea, Virus diseases (plants).

21129-68
OBSERVATIONS ON THE VAPOUR PHASE ACTIVITY OF SOME FOLIAGE FUNGICIDES.
E C Hislop
Ann Appl Biol 60(2)2:265-279 REF
Oct 1967 442.8 AN72
Biochemistry, Biological assay, Botrytis, Culture media, Dosage, Equipment, Fungicides, Immunity, Leaves, Plant growth inhibitors, Seed germination, Vapors.

21130-68
NON-FUNGICIDAL, CHEMICAL CONTROL OF SOILBORNE DISEASES.
D M Huber
Pacific Northwest Fert Conf Proc 18:95-98
Jul 1967 57.9 P11
Chemical control (plant diseases), Crops, Deficiency diseases, Fumigation, Fungicides, Research, Soil-borne plant diseases.

21131-68
PEAR LEAF CURL VIRUS TRANSMITTED BY PEAR PSYLLA.
G H Kaloostian L S Jones
Plant Dis Rep 52(12):924-925
Dec 1968 1.9 P69P
Insect vectors, Leaf curl, Psylla pyricola, Research, Trees, Virus diseases (plants).

21132-68
REACTIONS OF GROUNDNUT VARIETIES TO THE GROUNDNUT VIRUSES.
P J Klesser
S Afr J Agr Sci 11(2):415-421
Jun 1968 24 SU3
Chlorosis (plants), Mosaic (peanuts), Peanuts, Plant disease resistance, Virus diseases (plants).

21133-68
WEED CONTROL IN FLUE-CURED TOBACCO.
G C Klingman
Tobacco 165(10):25
08 Sep 1967 286.89 T552
Chemical control (weeds), Flue-cured tobacco, Herbicides, Reports, Research, Tobacco, Weed control.

21134-68
EXPERIMENT RESULTS AND PROBLEMS OF PHYTOPATHOGENIC VIRUSES IN GERMAN DEMOCRATIC REPUBLIC. (POL)
M Klinkowski
Poznan Inst Ochrony Roslin Biul 28(1):76
1967 464.9 P87
Chemical control (plant diseases), Fruit, Ornamental plants, Phytopathology, Plant breeding, Potatoes, Sugar beets, Trees, Vegetables. Summary in english

21135-68
SOME EFFECTS OF CULTURAL TREATMENTS ON VIRUS DISEASES OF CULTIVATED MUSHROOM, AGARICUS BISPORUS.
F T Last M Hollings O M Stone
Ann Appl Biol 59(3):451-462 REF
Jun 1967 442.8 AN72
Agar, Cultural control (plant diseases), Electron microscopy, Heating, Immunization, Mushrooms, Plant abnormalities, Virus diseases (plants).

21136-68
DIFFERENCES IN SENSITIVITY TO BORON DEFICIENCY FOUND IN VARIETIES OF ROOT CELERY. (GE)
H O Leh
Nachrichtenbl Deut Pflanzenschutzdienstes 20(6):82-83
Jun 1968 442.9 B832
Boron, Breeding, Celery, Plant nutritional deficiencies, Research, Roots. English summary

21137-68
ALFALFA ANTHRACNOSE IN WASHINGTON.
O C Maloy
Plant Dis Rep 52(12):983
Dec 1968 1.9 P69P
Alfalfa, Anthracnose, Colletotrichum, Fungus diseases (plants), Research, Surveys.

21138-68
EMERGENCE AND PHYTOPATHOLOGICAL PROPERTIES OF A NEW STRAIN OF CLAVICEPS PURPUREA (FR.) TUL. ON RYE.
P G Mantle
Ann Appl Biol 60(3):353-356
Dec 1967 442.8 AN72
Alkaloids, Claviceps purpurea, Lolium, Phytopathology, Rye, Sclerotia.

21139-68
EFFECT OF WAX AND LANOLIN EMULSIONS ON THE EFFICIENCY OF POTATO-BLIGHT FUNGICIDES IN LABORATORY TESTS.

A H McIntosh D W Eveling
Ann Appl Biol 60(2):223-230
Oct 1967 442.8 AN72
Biochemistry, Early blight (potatoes), Emulsions, Fungicides, Paraffin wax, Phytophthora infestans, Plant diseases, Wool fat.

21140-68
FURTHER STUDY OF THE LATENT STRAIN OF THE TOBACCO MOSAIC VIRUS.
H H McKinney
Plant Dis Rep 52(12):919-922
Dec 1968 1.9 P69P
Injections, Leaves, Mosaic (tobacco), Nicotiana sylvestris, Research, Serological tests, Virus diseases (plants).

21141-68
DISEASES OF FLORIDA FLUE-CURED TOBACCO IN 1968.
C R Miller R S Mullin E B Whitty
Plant Dis Rep 52(12):984
Dec 1968 1.9 P69P
Flue-cured tobacco, Fungus diseases (plants), Meloidogyne, Research, Tobacco.

21142-68
REACTION OF PEPPER VARIETIES TO NATURALLY OCCURRING VIRUSES IN CALIFORNIA.
H Nagai P G Smith
Plant Dis Rep 52(12):928-930
Dec 1968 1.9 P69P
Agglutination test, Bush redpeppers (vegetable), Injections, Research, Virus diseases (plants).

21143-68
INHERITANCE OF RESISTANCE TO BLACK ROOT-ROT DISEASE IN TOBACCO. I. ANALYSIS OF THE GENE CONTROLLING THE RESISTANCE. (JA)
A Nakamura T Matuda H Nakatogana
Jap J Breed 18(4):241-246 REF
Aug 1968 64.8 J27
Black root rot (tobacco), Breeding, Genes, Heredity, Plant disease resistance, Plant genetics, Tables (data).

21144-68
VIRUS DISEASE SURVEY OF RICE PLANTS IN KYUSHU DISTRICT, 1962.
T Nishizawa T Kimura Y Nishi
Kyushu Agr Exp Sta Bull 12(3/4):251-268
Jan 1967 107.6 K996B
Culture media, Research, Rice, Surveys, Transplanting, Virus diseases (plants). English summary

21145-68
AMINO ACID SEQUENCE OF A COMMON JAPANESE STRAIN OF TOBACCO MOSAIC VIRUS.
Y Nozu Y Okada
J Molec Biol 35(3):643-646
14 Aug 1968 442.8 J8224
Amino acids, Biochemistry, Chromatography, Mosaic (tobacco), Peptides, Research, Virus diseases (plants).

21146-68
PHOMA LEAF SPOT OF TOMATO AND POTATO IN HAWAII.
F P Obrero E E Trujillo M Aracaki
Plant Dis Rep 52(12):946-947
Dec 1968 1.9 P69P
Culture media, Injections, Leaf spot, Phoma, Potatoes, Research, Surveys, Tomatocs.

21147-68
CONTROL OF POWDERY MILDEW ON CANTALOUPE.
A O Paulus F Shibuya T W Whitaker B J Hall G W Bohn
Calif Agr 21(3):12-13
Mar 1967 100 C12CAG
Cantaloupes, Fungus diseases (plants), Pest control, Powdery mildew (cantaloupes).

21148-68
HEMATOLOGIC EXAMINATION, AN AID IN THE DIAGNOSIS OF CATTLE LEUCOSIS. (SP)
Gh Paunescu Z Sirbu
Rev Zootech Med Vet 6:49-58
Jun 1968 49 P943
Anatomy, Animal diseases, Blood cells, Cattle, Epizootic diseases, Hematology, Histology, Research. Russian and English summary

21149-68
SOIL DESICCATION AND FUMIGATION FOR ARMILLARIA ROOT ROT IN CITRUS.
R L Rackham W D Wilbur T E Szuszkiewicz J Hara
Calif Agr 22(1):16-18
Jan 1968 100 C12CAG
Armillaria mellea, Citrus, Fumigation, Fungus diseases (plants), Research, Soils.

21150-68
INFLUENCE OF LIGHT ON ALTERNATION PRODUCTS OF UROMYCES PHASEOLI (PERS.) WINT.; MAINLY A BURDEN OF AMINO ACIDS ON STRING BEANS.
V Raggi
Riv Patol Veg 4(2):263-302
Oct 1966 464.8 R52
Amino acids, Beans, Leaves, Light, Research, Uromyces phaseoli. English summary

21151-68
TWEEN 20 AS AN ADJUVANT FOR SYSTEMIC SOIL FUNGICIDES FOR VERTICILLIUM IN COTTON.
T E Rawlins J A Booth
Plant Dis Rep 52(12):944-945
Dec 1968 1.9 P69P
Adjuvants, Chemical control (plant diseases), Fungicides, Physiology, Plant regulators, Research, Tables (data), Upland cotton, Verticillium albo-atrum.

21152-68
THE INCORPORATION OF ALIEN DISEASE RESISTANCE IN WHEAT BY GENETIC INTERFERENCE WITH THE REGULATION OF MEIOTIC CHROMOSOME SYNAPSIS.
R Riley V Chapman R Johnson
Genet Res 12(2):199-219 REF
Oct 1968 443.8 G283
Breeding, Chromosomes, Meiosis, Plant disease resistance, Plant diseases, Plant genetics, Research, Wheat.

21153-68
SOME FACTORS AFFECTING GERMINATION OF PERONOSPORA FARINOSA CONIDIA IN WATER.
G E Russell G M Evans
Ann Appl Biol 62(3):465-471
Dec 1968 442.8 AN72
Fungus diseases (plants), Peronospora farinosa, Research, Stimulants, Sugar beets, Water.

21154-68
EVALUATION OF LETTUCE VARIETIES AND BREEDING LINES FOR RESISTANCE TO COMMON LETTUCE MOSAIC.
E J Ryder
U S D A Tech Bull 1391:8 P.
May 1968 1 AG840TE
Biochemistry, Breeding, Chemical control (plant diseases), Host indexing (plants), Irradiation, Mosaic (lettuce), Plant disease resistance, Seedlings, Tables (data), Virus diseases (plants).

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N C Schenck
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Dec 1968 1.9 P69P
Chemical control (plant diseases), Downy mildew, Fungicides, Plant protection, Research, Spraying, Tetrachloroisophthalonitrile, Watermelons.

21156-68
STRAINS OF VERTICILLIUM WILT FUNGUS IN CALIFORNIA COTTON.
W C Schnathorst D E Mathre
Calif Agr 21(3):4-5
Mar 1967 100 C12CAG
Cotton, Fungus diseases (plants), Verticillium albo-atrum, Wilt (cotton).

21157-68
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Rev Zootech Med Vet 7(18):51-54
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Abortion, Animal diseases, Cattle, Clostridium welchii, Research, Toxicology. English, French, and Russian summary

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CARBONYL SULPHIDE FROM THE DECOMPOSITION OF CAPTAN.
E Somers D V Richmond J A Pickard
Nature 215(5097):214
08 Jul 1967 472 N21
Captan, Carbonyl sulphide, Chromatography, Decomposition, Fungicides, Research.

21159-68
A SODIUM-LINKED DISEASE OF PONDEROSA PINE IN DENVER, COLORADO.
J M Staley J Altman R A Spotts
Plant Dis Rep 52(12):908-910
Dec 1968 1.9 P69P
Chlorosis (plants), Necrosis, Pinus ponderosa, Research, Sodium, Tree diseases.

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INHERITANCE OF RESISTANCE IN MAIZE TO THE VIRUS OF STREAK DISEASE IN EAST AFRICA.
H H Storey A K Howland
Ann Appl Biol 59(3):429-436
Jun 1967 442.8 AN72
Corn, Genes, Immunization, Streak (corn), Virus diseases (plants).

21161-68
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H H Storey A K Howland
Ann Appl Biol 60(2):297-303
Oct 1967 442.8 AN72
Breeding, Corn, Immunization, Leaves, Plant genetics, Puccinia polysora.

21162-68
FRUITTREE VIRUSES INACTIVATED BY THERMOTERAPY. (DA)
A Thomsen
Tidsskr Plant 72(2):141-152 REF
1968 11 T439
Culture media, Drug therapy, Fruit, Research, Temperature, Trees, Virology, Virus diseases (plants). English summary

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INCREASED SUSCEPTIBILITY OF BLACKCURRANT BUSHES TO THE GALL-MITE VECTOR (PHYTOPTUS RIBIS NAL.) FOLLOWING INFECTION WITH REVERSION VIRUS.
J M Thresh
Ann Appl Biol 60(3):455-467 REF
Dec 1967 442.8 AN72
Cecidophyes ribis, Currants, Eriophyidae, Plant disease control, Reversion (currants).

21164-68
THE ISOLATION AND IDENTIFICATION OF RHUBARB VIRUSES OCCURRING IN BRITAIN.
J A Tomlinson D G A Walkey
Ann Appl Biol 59(3):415-427 REF
Jun 1967 442.8 AN72
Aphis fabae, Chenopodium amaranticolor, Crop varieties, Immunization, Leaf roll (cherries), Mosa-

ic, Myzus persicae, Rhubarb, Serological tests, Virus a (strawberries).

21165-68
INACTIVATION OF POTATO LEAF ROLL VIRUS IN TUBERS BY HOT WATER TREATMENT.
G C Upreti B B Nagaich
Amer Potato J 45(10):373-377 REF
Oct 1968 75.8 P842
Hot water treatment (plants), Leaf roll (potatoes), Potatoes, Research, Seed germination, Virus diseases (plants). French summary

21166-68
PHOSPHORUS DEFICIENCY DECREASES STOMATAL ACTIVITY AND WATER USE OF PLANTS.
A Wallace A Deutsch
Calif Agr 22(8):15
Aug 1968 100 C12CAG
Deficiency diseases, Laboratories, Phosphorus, Research, Stomata, Temperature, Tobacco, Water.

21167-68
STUDIES ON THE TRANSMISSION OF GROUNDNUT ROSETTE VIRUS BY APHIS CRACCIVORA KOCH.
M A Watson B A M Okusanya
Ann Appl Biol 60(2):199-208 REF
Oct 1967 442.8 AN72
Aphis craccivora, Culture media, Immunization, Insect vectors, Peanuts, Plant disease transmission, Rosette (peanuts), Virus diseases (plants).

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Jul 1967 24 R3472
Biological control (plant diseases), Black spot (citrus), Citrus, Guignardia citricarpa, Plant diseases, Pruning.

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T Woodhead
Ann Appl Biol 62(3):451-463
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Coffee berry disease, Colletotrichum coffeanum, Meteorology, Plant protection, Plantations, Research, Seed germination, Temperature.

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21170-68
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A N Adams
Rhodesia, Zambia, Malawi J Agr Res 5(2):145-151 REF
Jul 1967 24 R3472
Aphididae, Crimson clover, Host indexing (plants), Insect vectors, Peanuts, Research, Rosette, Stylosanthes, Virus diseases (plants).

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M D Armini
Riv Patol Veg 4(2):221-250 REF
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Biology, Chemical control (insects), Chemicals, Insect behavior, Parasitic insects, Peaches, Research, Taphrina deformans, Trees. English summary

21172-68
WHEAT BULB FLY, LEPTOMYLEMYIA COARCTATA FALL., AND ITS EFFECT ON THE GROWTH AND YIELD OF WHEAT.
R Bardner
Ann Appl Biol 61(1):1-11 REF
Feb 1968 442.8 AN72
Crop yields, Herbicides, Hylemya coaretata, Insect pests, Larvae, Plant injuries, Plant physiology, Weather, Wheat.

21173-68
THE DETERMINATION OF IRREGULARLY-SHAPED AREAS OF LEAVES DESTROYED BY CHEWING INSECTS.
D M Benjamin G H Freeman E S Brown
Ann Appl Biol 61(1):13-17
Feb 1968 442.8 AN72
Corn, Crop yields, Insect pests, Larvae, Leaves, Plant injuries, Spodoptera exempta.

Abstract: Methods for determing leaf area are reviewed: it is concluded that the most satisfactory method for determing the irregular areas of leaves eaten by chewing insects is likely to be the dot-grid method.

21174-68
INSECTICIDE EVALUATION FOR COTTON BOLLWORM.
J H Black C E Jackson T F Leigh D Gonzalez
Calif Agr 22(6):8-9
Jun 1968 100 C12CAG
Chemical control (insects), Cotton, Crop losses, Heliothis zea, Insecticides, Plant injuries, Research, Spraying.

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J Bot N Hollings
125 P. REF REPUBLIC OF SOUTH AFRICA
Jun 1968
Biochemistry, Chemical control (pests), Household pests, Insect pests, Pesticides, Reference materials.

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THE SOYBEAN CYST NEMATODE THREAT.
S A Breth
Crops Soils 21(1):7-13, MAP
Oct 1968 6 W55
Crop yields, Cysts, Geography, Insect control, Insect migration, Nematodes, Research, Soybeans.

21177-68
ALMOND STICKTIGHTS CONTRIBUTE TO NAVEL ORANGEWORM INFESTATIONS.
L E Caltagirone D W Meals K P Shea
Calif Agr 22(3):2-3
Mar 1968 100 C12CAG
Almonds, Crop losses, Hibernation, Insect control, Morphology, Paramyelois transitella, Reports, Research.

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INSECT DAMAGE TO SESAME...AND CONTROL POSSIBILITIES.
E C Carlson
Calif Agr 21(11):14-15
Nov 1967 100 C12CAG
Chemical control (insects), Insect pests, Plant injuries, Plant protection, Sesame.

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E C Carlson
Calif Agr 22(7):6-8
Jul 1968 100 C12CAG
Biology, Chemical control (insects), Homoeosoma electellum, Insecticides, Larvae, Research, Seed treatment, Sunflowers.

21180-68
PHOTOCHEMICAL OXIDANT INJURY AND BARK BEETLE (COLEOPTERA: SCOLYTIDAE) INFESTATION OF PONDEROSA PINE. II. EFFECT OF INJURY UPON PHYSICAL PROPERTIES OF OLEORESIN, MOISTURE CONTENT, AND PHLOEM THICKNESS.
F W Cobb D L Wood R W Stark P R Miller
Hilgardia 39(6):127-134
May 1968 100 C12H
Oleoresins, Phloem, Photochemistry, Pinus ponderosa, Plant injuries, Scolytidae, Water.

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THE VALUE OF A FLUORESCENT TRACER IN DETERMINING THE QUANTITY OF DIELDRIN ON HONEYBEES FORAGING IN A SPRAYED CROP.
B A Cooper P H Needham J H Stevenson
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Apis mellifera, Chromatography, Dieldrin, Fluorescent dyes, Lethal factor, Plants, Research, Spraying.

21182-68
INSECTICIDAL TRIALS AGAINST JOWAR PESTS.
S K Dorge V P Dalaya M V Gaikwar
Plant Protect Bull 19(1):15-20
1967 421 P69
Durra, Insect pests, Insecticides, Plant protection, Research.

21183-68
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T W Graham Z T Ford
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Breeding, Extracts, Greenhouse culture, Injections, Pratylenchus brachyurus, Research, Roots, Tobacco.

21184-68
EFFECT OF IONIZING RADIATION ON DACUS ZONATUS FRUIT FLY EGGS AND LARVAE IN SITU.
H Haque Ch R Ahmad
Pakistan J Sci 19(5-6):233-238
Nov 1967 475 P172
Dacus, Eggs, Guavas, Insect physiology, Ionization, Larvae.

21185-68
INSECT CONTROL ON CUCUMBERS, MELONS, SQUASH AND PUMPKINS.
E D Jr. Harris
Ga Univ Coll Agr Ext Serv Circ 566:7P.
Jul 1968 275.29 G290C
Cucumbers, Insect control, Insecticides, Melons, Plant protection, Pumpkins, Squash.

21186-68
TWO-SPOTTED MITE CONTROL IN WALNUTS.
L C Hendricks Jr C S Davis W C Batiste
Calif Agr 22(6):2-13
Jun 1968 100 C12CAG
Chemicals, Oils, Plant injuries, Research, Tetranychus urticae, Walnuts.

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SEASONAL POPULATION TRENDS OF PESTS AND PREDATORS UNDER PESTICIDE TREATMENTS IN APPLE ORCHARDS WITH RELEASE OF SOME PREDATORS.
S Hukusima
Gifu Univ Fac Agr Res Bull (24):91-113 REF
1967 107.6 G364
Apples, Biochemistry, Biological control (insects), Chemical control (pests), Climate, Insect pests, Pesticides, Population, Temperature. Japanese summary.

21188-68
STUDIES OF THE INSECT COMPLEX AFFECTING SEED PRODUCTION OF PONDEROSA PINE IN CALIFORNIA. SB608.P65K6.
T W Koerber
86P. MAP REF
Sep 1967
Entomology, Pinus ponderosa, Plant physiology, Reproduction, Research, Seeds.

21189-68
SELECTIVE NITROGEN ASSIMILATION BY PORIA WEIRII.
C Y Li K C Lu J M Trappe W B Bollen
Nature 213(5078):814 REF
25 Feb 1967 472 N21
Biological control (pests), Culture media, Enzymes, Nitrogen, Plant extracts, Plant injuries, Poria weirii, Research, Roots, Soils.

21190-68
MORPHOLOGICAL CHANGES IN A PARASITIC NEMATODE DUE TO ACQUIRED RESISTANCE OF THE HOST.
J F Michel
Nature 215(5100):520-521
29 Jul 1967 472 N21
Cattle, Culture media, Morphology, Mortality, Nematodes, Ostertagia ostertagi, Parasitic insects, Research.

21191-68
RICE WATER WEEVIL INCREASE NOTED IN CALIFORNIA.
D S Mikelsen
Rice J 71:15
Oct 1968 59.8 R36
Insect control, Lissorhoptrus oryzophilus, Reports, Rice, Seed treatment.

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SYNTHESIS OF A PLANT HORMONE BY THE SALIVARY APPARATUS OF PLANT-SUCKING HEMIPTERA.
P W Miles J Lloyd
Nature 213(5078):801-802
25 Feb 1967 472 N21
Crown galls, Culture media, Elasmolomus sordidus, Eumecopus punctiventris, Hemiptera, Indoleacetic acid, Insect vectors, Plant hormones, Salivary glands (insects).

21193-68
PHOTOCHEMICAL OXIDANT INJURY AND BARK BEETLE (COLEOPTERA: SCOLYTIDAE) INFESTATION OF PONDEROSA PINE. III. EFFECT OF INJURY ON OLEORESIN COMPOSITION, PHLOEM CARBOHYDRATES, AND PHLOEM PH.
P R Miller F W Jr. Cobb E Zavarin
Hilgardia 39(6):135-140
May 1968 100 C12H
Carbohydrates, Hydrogen-ion concentration, Oleoresins, Phloem, Photochemistry, Pinus ponderosa, Plant injuries, Scolytidae.

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B Muir
J Agr 66(PT 2):271-275
Aug 1968 23 V660J
Agrostis, Fertilizers, Insect pests, Pest control, Plant injurics, Soil structure, Tillage.

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CONTROL OF STRAWBERRY MITE (CYCLAMEN MITE) STENEOTARSONEMUS PALLIDUS (BANKS 1901). 5TH CONTRIBUTION. (GE)
W K Muller
Nachrichtenbl Deut Pflanzenschutzdienstes 20(5):73-75 REF
May 1968 442.9 B832
Acaricides, Chemical control (pests), Endosulfan, Organic compounds, Pesticides, Phosphorus, Spraying, Steneotarsonemus pallidus, Strawberries, Tables (data), Tarsonemidae. English summary

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NEW SPIDER MITE POSES THREAT TO CALIFORNIA'S SOLANACEOUS CROPS.
E R Oatman C A Fleschner J A McMurtry
Calif Agr 21(10):10-12
Oct 1967 100 C12CAG
Eggplant, Insect pests, Plant protection, Potatoes, Solanum nigrum, Tetranychidae, Tomatoes.

21197-68
HELIOTHIS ARMIGERA (HIUBNER), AMERICAN BOLLWORM, ON WHEAT IN WEST KILIMANJARO, TANZANIA.
R H Parish R A Makusi
Arusha Trop Pesticides Res Inst Misc Rep 589:11 P.
Nov 1966 423.92 G7922
Heliothis armigera, Insect pests, Plant injuries, Population, Seedlings, Tables (data), Wheat.

21198-68
DESIGN AND EVALUATION OF EQUIPMENT FOR BASAL APPLICATION OF SYSTEMIC INSECTICIDES TO CONTROL COTTON PLANTS.
B G Reeves L H Wilkes R L Ridgway D A Lindquist
Amer Soc Agr Eng Trans Asae 10(2):179-181 REF
1967 290.9 AM32T
Chemical control (insects), Cotton, Equipment, Insecticides, Laboratories, Lygus hesperus, Research, Spraying.

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W R Schreader A D Rizzi
Calif Agr 21(3):8-9
Mar 1967 100 C12CAG
Crop yields, Insect pests, Mites, Olives, Research.

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ORGANIC INSECTICIDES AND SOME RECENT TRENDS IN PEST CONTROL.
S Singh
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Chemical control (insects), Insect pests, Insecticides, Organic compounds, Plant protection.

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EFFECTS OF OIL SPRAYS FOR CONTROLLING PACIFIC MITE ON GRAPEVINES.
E M Stafford J E Dibble C D Lynn W B Hewitt
Calif Agr 22(5):2-3
May 1968 100 C12CAG
Grape vineyards, Mites, Oils, Plant diseases, Plant injuries, Research, Spraying.

21202-68
CONTROL OF APHIDS ON BARLEY. ECONOMIC TREATMENT LEVELS. ANALYSIS OF YIELD INCREASES.
V M Stern W R Bowen
Calif Agr 21(3):14-15
Mar 1967 100 C12CAG
Aphididae, Barley, Crop yields, Economics, Insect control, Insect pests.

21203-68
ON THE LETHAL EFFECTS OF METHYL BROMIDE TO BROAD BEAN WEEVIL (BRUCHUS RUFIMANUS BOHEMAN). SB608.0B30Y63.
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Bruchus rufimanus, Dosage, Fumigation, Insect pests, Lethal factor, Methyl bromide, Seedlings, Storage.

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M M Zaki M A El-Gahr S H Mitry
An Agr Sci 9(2):65-78
Dec 1964 24 AN72
Azinphosmethyl, Cotton, Fenthion, Insecticides, Organic compounds, Phosphorus, Prodenia litura, Tables (data), Trichlorfon. Arabic summary

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SOME EFFECTS OF THE NEMATODES DITYLENCHUS MYCELIOPHAGUS AND APHELENCHOIDES COMPOSTICOLA ON THE YIELD OF THE CULTIVATED MUSHROOM.
N P Arrold C D Blake
Ann Appl Biol 61(1):161-166
Feb 1968 442.8 AN72
Aphelenchoides, Ditylenchus, Injections, Mushrooms, Nematodes, Reproduction.

21206-68
A COMPARISON OF CEREAL ROOT EELWORM RESISTANT AND SUSCEPTIBLE SPRING BARLEY GENOTYPES AT TWO SITES.
J Cotten
Ann Appl Biol 59(3):407-413
Jun 1967 442.8 AN72
Barley, Genotypes, Heterodera avenae, Nematodes, Pratylenchus.

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PRODUCTION OF ETHANOL AND SUCCINATE BY MONILIFORMIS DUBIUS (ACANTHOCEPHALA).
D W T Crompton P F V Ward
Nature 215(5104):964-965
26 Aug 1967 472 N21
Biochemistry, Chromatography, Ethyl alcohol, Excreta, Moniliformis dubius, Parasitism, Periplaneta americana, Rats, Succinates.

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RESISTANCE TO THE POTATO CYST-NEMATODE, HETERODERA ROSTOCHIENSIS, IN THE PLANT GENUS LYCOPERSICON.
P R Ellis
Ann Appl Biol 61(1):151-160 REF
Feb 1968 442.8 AN72
Heterodera rostochiensis, Injections, Lycopersicon, Nematodes, Plant nematode resistance, Potatoes, Solanum, Tomatoes.

21209-68
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G D Griffin G L Stoker
Plant Dis Rep 52(12):956
Dec 1968 1.9 P69P
Chemical control (nematodes), Crop losses, Immunity, Meloidogyne hapla, Plant protection, Potatoes, Research.

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ON THE LOCOMOTIVE BEHAVIOR OF PANAGRELLUS REDIVIVUS (NEMATODA).
L Helbig
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Locomotion, Nematoda. English and German summaries

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W M Reid H E Womack J Johnson
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May 1968 47.8 AM33P
Chickens, Coccidiosis, Livestock diseases, Parasitism.

21212-68
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P H Silverman
Us Patent Office Offic Gaz 852(5):1247
30 Jul 1968 156.65 OF2
Animal diseases, Antibiotics, Larvae, Lyophilization, Nematocides, Nematodes, Vaccines.

21213-68
FREQUENCY OF OCCURRENCE OF FREE LIVING NEMATODES IN DANISH NURSERIES, TULIP, NARCISSUS AND VEGETABLE FIELDS, AND THE EFFECT OF SOME SOIL DISINFESTANTS ON THE NEMATODE POPULATION IN THE SOIL OF SOME NURSERY CROPS.
E Sondcrhousen R Christensen S Rasmussen
Tidsskr Plant 72(2):245-270
1968 11 T439
Antiseptics, Crops, Narcissus, Nematodes, Nurseries, Research, Soils, Tulipa, Vegetables. English summary

21214-68
NEMATODE DAMAGE IN CEREALS. (GE)
B Weischer
Nachrichtenbl Deut Pflanzenschutzdienstes 20(6):83-88 REF
Jun 1968 442.9 B832
Crop losses, Ditylenehus dipsaci, Grain, Heterodera avenae, Nematodes, Plant injuries, Plant physiology, Pratylenchus. English summary

WEEDS

21215-68
PRE-EMERGENCE HERBICIDES FOR WEED CONTROL IN LETTUCE.
H Agamalian A Lange J Lyons E Stilwell H Ford H Kempen O McCoy F Robinson
Calif Agr 21(10):8-9
Oct 1967 100 C12CAG
Chemical control (weeds), Herbicides, Lettuce, Weeds.

21216-68
COMMON NAMES OF HERBICIDES.
Anonymous
PANS (Pest Art News Sum) Sect C Weed Contr 14(2):210-213
Jun 1968 79.9 G792
Chemical control (weeds), Herbicides, Indexing, Nomenclature.

21217-68
A CODE FOR CHARACTERISING HERBICIDES.
F Beran J Neururer
PANS (Pest Art News Sum) Sect C Weed Contr 14(2):118
Jun 1968 79.9 G792
Biochemistry, Chemical control (weeds), Climate, Herbicides, Indexing, Soil series. The code was taken from Zeitschrift fur Pflanzenkrankheiten und Planzenschutz, vol. 74, no. 5, 1967, pp. 317-331.

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SICKLEPOD-SUCCESS STORY OF A WEED.
J M Creel C S Hoveland G A Buchanan
Highlights 15(4):3
1968 100 AL1H
Cassia obtusifolia, Crop losses, Culture media, Research, Seed germination, Temperature, Weed control.

21219-68
WEED CONTROL ON FENLAND SOIL.
J Holroyd
Great Brit Min Agr Fish Food Agr 75(7):336-342
Jul 1968 10 G79J
Biological assay, Chemical control (weeds), Herbicides, Physiology, Research, Soils, Weed control.

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IOXYNIL: ITS EFFECT ON WHEAT YIELD AND WEED POPULATIONS.
J W Jooste
S Afr J Agr Sci 11(1):17-26 REF
Mar 1968 24 SU3
Biochemistry, Chemical control (weeds), Crop yields, Herbicides, Ioxynil, Mecoprop, Methyl-4-chlorophenoxyacetic acid, 2-, Population, Spraying, Weed control, Wheat, 2,4-d. French and German summary.

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WEED CONTROL IN CARROTS, CELERY, AND PARSLEY.
H Kempen M Agamalian A Lange R Brendler
Calif Agr 22(4):2-3
Apr 1968 100 C12CAG
Carrots, Celery, Crop yields, Herbicides, Parsley, Research, Surveys, Weed control.

21222-68
WEED CONTROL IN CUCURBITS.
A Lange D May B Fischer V Schweers
Calif Agr 22(3):8-9
Mar 1968 100 C12CAG
Chemical control (weeds), Cucumbers, Cucurbits, Herbicides, Research, Surveys, Weed control.

21223-68
HERBICIDES FOR CONTROL OF ANNUAL WEEDS IN CALIFORNIA APPLES AND PEARS.
A H Lange C L Elmore G W Morehead E K Stilwell S M McRitchie 6 D W Chaney J J Smith L C Hendricks K O Roberts
Calif Agr 21(3):10-12
Mar 1967 100 C12CAG
Annual plants, Apples, Herbicides, Weed control, Weeds.

21224-68
WEEDS IN CALIFORNIA FRUIT CROPS... A SUMMARY OF PROBLEMS AND HERBICIDE POSSIBILITIES.
A H Lange
Calif Agr 22(2):8-10
Feb 1968 100 C12CAG
Crops, Fruit, Herbicides, Research, Surveys, Weed control, Weeds.

21225-68
THE GARDEN OF EDEN CONCEPT: AGRICULTURE IN A WEED-FREE ENVIRONMENT.
E C S Little
PANS (Pest Art News Sum) Sect C Weed Contr 14(2):107-109
Jun 1968 79.9 G792
Agricultural outlook, Environment, Greenhouse culture, Reproduction, Seedlings, Tillage, Weed control, Weeds.

21226-68
TOLOGY - THE SCIENCE OF WEED RESEARCH AND CONTROL. II.
E C S Little
PANS (Pest Art News Sum) Sect C Weed Contr 14(2):116-117
Jun 1968 79.9 G792
Legislation, Nomenclature, Research, Weed control, Weeds.

21227-68
OKRA PRODUCTION.
J A Martin W P Cook
Clemson Univ Ext Serv Circ 510:8P.
Aug 1968 275.29 SO80E
Chemicals, Crop yields, Fertilizers, Harvesting, Insect control, Irrigation, Okra, Planting, Research, Soils, Tillage, Weed control.

21228-68
CRITICAL PERIODS OF THE CROP GROWTH CYCLE FOR COMPETITION FROM WEEDS.
J H Nicto M A Brondo J T Gonzalez
PANS (Pest Art News Sum) Sect C Weed Contr 14(2):159-166
Jun 1968 79.9 G792
Biochemistry, Chemical control (weeds), Competition, Crop losses, Crops, Herbicides, Plant physiology, Research, Weeds.

21229-68
SOME ULTRASTRUCTURAL FEATURES OF THE INTESTINAL EPITHELIUM OF ASCARIS LUMBRICOIDES VAR. SUUM. (IT)
L Pennisi
Riv Parassitol 28(4):283-289 REF
Dec 1967 436.8 R52
Anatomy, Ascaris lumbricoides suum, Cells, Electron microscopy, Epithelium, Intestines, Nematodes, Physiology. English summary

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EFFECTS OF COVERING MATERIALS AND INCORPORATED HERBICIDES ON LETTUCE STANDS UNDER THREE IRRIGATION TREATMENTS.
D Ririe H Agamalian L J Booher C Brooks
Calif Agr 22(2):13-15
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Chemicals, Crop yields, Herbicides, Irrigation, Lettuce, Research, Weed control.

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METHOD OF CONTROLLING THE GROWTH OF UNDESIRABLE VEGETATION. PATENT 3,413,109.
J F Vartiak
Us Patent Office Offic Gaz 856(4):1189
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Biochemistry, Chemical control (weeds), Herbicides, Methodology, Oils, Patents, Plant physiology, Spraying, Vegetation.

OTHER PESTS

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BILIARY EXCRETION OF AFLATOXIN IN THE RAT AFTER A SINGLE DOSE.
O Bassir F Osiyemi
Nature 215(5103):882
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Aflatoxin, Aspergillus flavus, Biliary tract, Extracts, Glucuronides, Radioactivity, Rats, Research, Sampling (statistics), Urine.

21233-68
ARMYWORMS, WHEN TO SPRAY - AND WHEN NOT TO.
J Falter
Crops Soils 20(8):14
Jun 1968 6 W55
Pesticide application, Plant injuries, Plant protection, Pseudaletia unipuncta, Spraying, Time.

21234-68
HERITABLE RESISTANCE TO WARFARIN IN RATS.
J H Greaves P Ayres
Nature 215(5103):877-878
19 Aug 1967 472 N21
Blood analysis, Injections, Laboratories, Mortality, Pest control, Rattus norvegicus, Tables (data), Warfarin.

21235-68
SEPARATION OF RODENT PELLETS FROM CORN KERNELS BY WASHING.
R W Sucher H B Pfost
Amer Soc Agr Eng Trans Asae 10(2):233-235
1967 290.9 AM32T
Corn, Equipment, Food processing, Laboratories, Research, Rodents, Storage.

LIVESTOCK PROTECTION

21236-68
EFFECTS OF HIGH GOSSYPOL COTTONSEED MEAL ON THE ELECTROCARDIOGRAM OF SWINE.
J E Albrecht A J Clawson L C Ulberg F H Smith
J Anim Sci 27(4):976-980 REF
Jul 1968 49 J82
Cottonseed meal, Electrocardiograms, Gossypol, Heart rate, Liver, Research, Swine, Tissues, Toxicology.

21237-68
STRONTIUM RETENTION AS A FUNCTION OF AGE IN DOG.
J J B Anderson C L Comar

Radiat Res 34(1):153-169 REF
Apr 1968 334.8 R11
Aging, Animal physiology, Autoradiography, Biochemistry, Bones, Dogs, Research, Strontium.

21238-68
EFFECT OF FURAZOLIDONE TO SWINE AT BREEDING. (ABSTRACT).
M D Anderson
J Anim Sci 27(4):1131
Jul 1968 49 J82
Animal physiology, Biochemistry, Breeding, Feeding, Furazolidone, Reproduction, Research, Swine. Abstract for presentation at 60th annual meeting of the A.S.A.S.

21239-68
RUMEN TISSUE UPTAKE OF ZINC-65. (ABSTRACT).
S P Arora E E Hatfield U S Garrigus T G Lohman B B Doane
J Anim Sci 27(4):1160
Jul 1968 49 J82
Adsorption, Biochemistry, Diet, Lambs, Research, Rumen, Tissues, Zinc isotopes. Abstract presented at 60th annual meeting of A.S.A.S.

21240-68
DEVELOPMENT OF GOATS IRRADIATED FROM CONCEPTION. (ABSTRACT).
J W Austin E W Hupp G M Krise
J Anim Sci 27(4):1187-1188
Jul 1968 49 J82
Animal physiology, Breeding, Dosage, Goats, Irradiation, Reproduction. Abstract presented at 60th annual meeting of A.S.A.S.

21241-68
A COMPARISON OF THE ABILITY OF THE JAPANESE QUAIL AND LIGHT BREED CHICKEN TO METABOLIZE AND UTILIZE ENERGY.
J J Begin
Poultry Sci 47(4):1278-1281
Jul 1968 47.8 AM33P
Animal physiology, Breeding, Chickens, Diet, Energy, Metabolism, Quail, Research.

21242-68
ENTEROHEPATIC CIRCULATION OF 3H-VITAMIN A METABOLITES IN SHEEP. (ABSTRACT).
J A Boling G E Mitchell C O Little C L Fields
J Anim Sci 27(4):1961
Jul 1968 49 J82
Bile ducts, Intestines, Metabolites, Radioactivity, Research, Sheep, Vitamin a. Abstract presented at 60th annual meeting of A.S.A.S.

21243-68
DRUG RESIDUES IN LAMB CARCASSES FED POULTRY LITTER. (ABSTRACT).
H H Brugman H C Dickey B E Plummer J Goater R N Heitman
J Anim Sci 27(4):1132
Jul 1968 49 J82
Animal physiology, Biochemistry, Drug therapy, Feed, Lambs, Poultry. Abstract for presentation at 60th annual meeting of the A.S.A.S.

21244-68
VITAMIN E AND SELENIUM IN EWE REPRODUCTION. (ABSTRACT).
J G Buchanan-Smith B I Osburn J E Smith E C Nelson
J Anim Sci 27(4):1176-1177
Jul 1968 49 J82
Animal histology, Animal physiology, Biochemistry, Diet, Reproduction, Research, Selenium, Sheep, Vitamin e. Abstract presented at 60th annual meeting of A.S.A.S.

21245-68
FATTY ACID CHANGES IN LIVER FRACTIONS OF PIGEONS AFTER LETHAL-DOSE RADIATION AND THERAPY.
R A Chung E S So D H Shaw
Poultry Sci 47(4):1127-1130
Jul 1968 47.8 AM33P
Animal physiology, Fatty acids, Lethal factor, Liver, Pigeons, Radiation, Therapeutics.

21246-68
IN VITRO AGGLUTINATION OF BOVINE ERYTHROCYTES INFECTED WITH BABESIA ARGENTINA.
J A Curnow
Nature 217(5125):267-268
20 Jan 1968 472 N21
Agglutination test, Antigens, Babesia argentina, Blood serum, Calves, Culture media, Erythrocytes, Immunity, Physiology, Plasmodium knowlesi.

21247-68
EFFECT OF PYRIDOXINE DEFICIENCY ON LIPID METABOLISM IN THE CHICK.
N J Daghir J M Porooshani
Poultry Sci 47(4):1094-1098 REF
Jul 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chicks, Lipids, Metabolism, Research, Vitamin b6.

21248-68
INSECTICIDE APPLICATIONS AND THEIR EFFECT ON WILDLIFE.
A De Uos
Entomol Soc Ontario Proc 91:35-36
1960 420 ON8
Insecticide residues, Poisoning, Toxicology, Wildlife.

21249-68
CHROMIUM-51 IN FOOD METABOLIZABILITY AND PASSAGE RATE STUDIES WITH THE RING-NECKED PHEASANT.
G E Duke G A Petrides R K Ringer
Poultry Sci 47(4):1356-1364 REF
Jul 1968 47.8 AM33P
Animal nutrition, Chromium isotopes, Dosage, Drug therapy, Food, Metabolism, Pheasants, Research.

21250-68
MASTITIS TESTING...A SIX-YEAR SUMMARY OF FRESNO COUNTY'S DHIA PROGRAM.
R N Eide
Calif Agr 22(6):4
Jun 1968 100 C12CAG
Agricultural outlook, Agricultural policies, Cattle, Management, Mastitis, Research.

21251-68
OBSERVATIONS ON THE DEVELOPMENT OF RUMINAL LESIONS IN CALVES FED ON BARLEY.
B F Fell M Kay F G Whitelaw R Boyne
Res Vet Sci 9(5):458-466
Sep 1968 41.8 R312
Barley, Calves, Diet, Feeding, Inflammation, Microscopy, Research, Rumen.

21252-68
PHYSIOLOGICAL EFFECTS OF FEEDING HIGH LEVELS OF ANTIBIOTICS AND VITAMINS TO TURKEYS.
T M Ferguson E B Smith J R Couch
Poultry Sci 47(3):1032-1033
May 1968 47.8 AM33P
Animal nutrition, Antibiotics, Feed, Physiology, Turkeys, Vitamins.

21253-68
EFFECT OF DIFFERENT NITROGEN SOURCES AND ANTIBIOTICS IN ALL-CONCENTRATE FINISHING RATIONS. (ABSTRACT).
D Furr K R Hansen J A Carpenter L B Sherrod
J Anim Sci 27(4):1110
Jul 1968 49 J82
Antibiotics, Biochemistry, Cattle, Cottonseed meal, Nitrogen compounds, Research, Sorghum, Urea. Abstract presented at meeting of A.S.A.S., July 7-9, 1968, moscow, Idaho.

21254-68
DIFFERENT LEVELS OF DIETHYLSTILBESTROL AND CERTAIN MINERALS FOR CATTLE FED AN ALL-CONCENTRATE FINISHING RATIO. (ABSTRACT).
R D Furr K R Hansen J A Carpenter
J Anim Sci 27(4):1111
Jul 1968 49 J82
Animal physiology, Biochemistry, Cattle, Diethylstilbestrol, Feeding, Minerals, Research. Abstract presented at meeting of A.S.A.S., July 7-9, 1968, moscow, Idaho.

21255-68
THE COMPARATIVE HISTOCHEMISTRY OF SOME HYDROLYTIC AND OXIDATIVE ENZYMES IN THE LIVERS OF SEVERAL DOMESTIC AND LABORATORY ANIMALS.
C Gopinath E Thorpe
Res Vet Sci 9(5):435-442 REF
Sep 1968 41.8 R312
Enzymes, Histochemistry, Hydrolysis, Laboratories, Liver, Livestock, Oxides, Research, Tissues.

21256-68
METHIONINE EXCESS AND CHICK GROWTH.
P Griminger H Fisher
Poultry Sci 47(4):1271-1273
Jul 1968 47.8 AM33P
Animal nutrition, Animal physiology, Biochemistry, Chicks, Drug therapy, Methionine, Toxicology.

21257-68
THE APPLICATION OF AN ANTIFERTILITY AGENT IN THE CONTROL OF A WHITE-TAILED DEER POPULATION.
J D Harder
Ohio Coop Wildlife Res Unit Quart Rep 1968 REPORT:11-14
Jul 1968 412.9 OH33
Animal nutrition, Breeding, Deer, Diethylstilbestrol, Feeding, Fertility, Reproduction, Research.

21258-68
FACTORS CONTRIBUTING TO OVINE PHOSPHATIC UROLITHIASIS. (ABSTRACT).
D W Hoar R J Emerick L B Embry
J Anim Sci 27(4):1165
Jul 1968 49 J82
Biochemistry, Diet, Dosage, Phosphorus, Research, Sheep, Urolithiasis. Abstract presented at 60th annual meeting of A.S.A.S.

21259-68
2,2-DICHLOROVINYL DIMETHYL PHOSPHATE AND RUMEN VFA AND GAS PRODUCTION. (ABSTRACT).
A D Howes I A Dyer
J Anim Sci 27(4):1116
Jul 1968 49 J82
Animal physiology, Biochemistry, Culture media, Dichlorvos, Fatty acids, Fermentation, Gases, Rumen. Abstract presented at meeting of A.S.A.S., July 7-9, 1968, moscow, Idaho.

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UTILIZATION OF UNEXTRACTED SOYBEANS BY BROILER CHICKS. 2. INFLUENCE OF PELLETING AND REGRINDING ON DIETS WITH INFRA RED COOKED AND EXTRUDED SOYBEANS.
S J Hull P W Waldroup E L Stephenson
Poultry Sci 47(4):1115-1120
Jul 1968 47.8 AM33P
Animal nutrition, Chicks, Diet, Feed, Research, Soybeans.

21261-68
EFFECTS OF FOREST SPRAYING WITH DDT ON AQUATIC INSECTS, FOOD OF SALMON AND TROUT, IN NEW BRUNSWICK.
F P Ide
Entomol Soc Ontario Proc 91:39-40
1960 420 ON8
Animal ecology, Aquatic insects, Chemical control (insects), DDT, Forests, Insecticide residues, Spraying, Starvation.

21262-68
COMPARISON OF METABOLITES OF PROGESTERONE-4-14C IN URINE FROM A NONPREGNANT DOMESTIC SOW.
P H Jones R E Erb
J Anim Sci 27(4):1049-1053 REF
Jul 1968 49 J82
Animal physiology, Biochemistry, Carbon isotopes, Metabolites, Progesterone, Radioactivity, Research, Swine, Urine.

21263-68
GROWTH AND PROTEINASE PRODUCTION IN PSEUDOMONAS SPP. CULTIVATED UNDER VARIOUS CONDITIONS OF TEMPERATURE AND NUTRITION.
H S Juffs A C Hayward H W Doelle
J Dairy Res 35(3):385-393
Oct 1968 44.8 J823
Culture media, Extracellular substances, Physiology, Proteinases, Pseudomonas aeruginosa, Research, Temperature.

21264-68
SOME PROPERTIES OF THE EXTRACELLULAR PROTEOLYTIC ENZYMES OF THE MILK-SPOILING ORGANISM PSEUDOMONAS AERUGINOSA ATCC 10145.
H S Juffs H W Doelle
J Dairy Res 35(3):395-398
Oct 1968 44.8 J823
Enzymes, Extracellular substances, Heat, Milk analysis, Pseudomonas aeruginosa, Research.

21265-68
THE EFFECT OF LIGHT AND TEMPERATURE ON THE TESTICULAR GROWTH OF THE JAPANESE QUAIL.
M Kato T Konishi
Poultry Sci 47(4):1052-1056 REF
Jul 1968 47.8 AM33P
Animal physiology, Light, Quail, Research, Temperature, Testes.

21266-68
EFFECT OF DIETARY ASCORBIC ACID ON VITAMIN A DEFICIENCY IN CHICKS.
J Kendler M Perek
Poultry Sci 47(4):1176-1179 REF
Jul 1968 47.8 AM33P
Animal nutrition, Ascorbic acid, Chicks, Deficiency diseases, Diet, Drug therapy, Research, Vitamin a.

21267-68
PROTEIN POLYMORPHISM IN BIRDS. III. THE EGG WHITE PROTEINS OF FIVE FAMILIES OF BIRDS, PHASINIADAE, NUMIDIDAE, MELEAGRIDIDAE, ANATIDAE AND COLUMBIDAE. (JA)
M Kimura N Makita
Gifu Univ Fac Agr Res Bull (24):258-270 REF
1967 107.6 G364
Birds, Egg whites, Electrophoresis, Polymorphism, Proteins. English summary

21268-68
FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. DISODIUM EDTA.
J K Kirk
Fed Regist 33(217):16272
06 Nov 1968 L1.451
Animals, Biochemistry, Ethylenediaminetetraacetic acid, Feed, Food additives, Micronutrients, Water.

21269-68
FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. ZOALENE.
J K Kirk
Fed Regist 33(217):16272-16273
06 Nov 1968 L1.451
Arsanilic acid, Chickens, Drug therapy, Feed, Food additives, Water, Zoalene.

21270-68
NOTICE OF FILING OF PETITIONS FOR FOOD ADDITIVES AMPROLIUM, ETHOPABATE, ARSANILIC ACID, 3-NITRO-4-HYDROXYPHENYLARSONIC ACID.
J K Kirk
Fed Regist 33(220):16478
09 Nov 1968 L1.451
Amprolium, Arsanilic acid, Biochemistry, Chickens, Coccidiosis, Ethopabate, Feed, Food additives, Nitro-4-hydroxyphenylarsonic acid, 3-, Preventive medicine.

21271-68
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES.
J K Kirk
Fed Regist 33(220):16478
09 Nov 1968 L1.451
Biochemistry, Diethylstilbestrol, Feed, Food additives, Methyl testosterone, Swine, Tylosin.

21272-68
NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVE OXYTETRACYCLINE.
J K Kirk
Fed Regist 33(223,PT.1 AND 2):16682
15 Nov 1968 L1.451
Baby pigs, Biochemistry, Cattle, Food additives, Livestock diseases, Oxytetracycline.

21273-68
EFFECT OF ZINC DEFIENCY ON BONE MINERALIZATION AND PLASMA PROTEINS OF TURKEY POULTS.
F H Kratzer
Poultry Sci 47(4):1135-1140 REF
Jul 1968 47.8 AM33P
Animal nutrition, Animal physiology, Bones, Mineralization (nutrients), Proteins, Turkeys, Zinc.

21274-68
SAFFLOWER MEAL- UTILIZATION AS A PROTEIN SOURCE FOR BROILER RATIONS.
D D Kuzmicky G O Kohler
Poultry Sci 47(4):1266-1270 REF
Jul 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chickens, Feed, Proteins, Research, Safflower.

21275-68
INJURY ACCUMULATION AND RECOVERY IN SHEEP DURING PROTRACTED GAMMA IRRADIATION.
G F Leong N P Page E J Ainsworth G E Hanks
Radiat Res 7:288-293
07 Sep 1965 334.8 R11
Gamma rays, Injuries, Irradiation, Research, Sheep.

21276-68
EXOGENOUS PROGESTERONE ON OVINE CORPORA LUTEA. (ABSTRACT).
P E Lewis W C Taylor E K Inskeep
J Anim Sci 27(4):1193
Jul 1968 49 J82
Animal physiology, Corpus luteum, Estrus, Progesterone, Sheep. Abstract presented at 60th annual meeting of A.S.A.S.

21277-68
ORGANIC ACIDS AND GRASS TETANY. (FR)
F Lomba G Chauvaux V Bienfet
Ann Med Vet 112(4):261-274 REF
Jun 1968 41.8 AN78
Acids, Animal diseases, Calcium, Citric acid, Grass tetany, Magnesium, Organic compounds, Oxalic acid, Rabbits. English and German summary.

21278-68
2,2-DICHLOROVINYL DIMETHYL PHOSPHATE AND BOVINE BLOOD GLUCOSE. (ABSTRACT).
F R Morris I A Dyer
J Anim Sci 27(4):1116-1117
Jul 1968 49 J82
Biochemistry, Blood, Cattle, Dichlorvos, Feeding, Glucose, Research. Abstract presented at meeting of A.S.A.S., July 7-9, 1968, moscow, Idaho.

21279-68
THE PHARMACOLOGICAL EFFECT OF BAYMIX (COUMAPHOS) ON POULTRY.
D L Nelson J O Mozier R G White A D Allen
Poultry Sci 47(3):960-962
May 1968 47.8 AM33P
Biochemistry, Coumaphos, Insecticides, Pharmacology, Physiology, Poultry.

21280-68
OHIO COOPERATIVE WILDLIFE RESEARCH UNIT. QUARTERLY REPORT, JULY-SEPT. 1968.
Ohio Coop Wildlife Res Unit Quart Rep 42 P.
Jul 1968 412.9 OH33
Chemicals, Reports, Research, Wildlife conservation.

21281-68
LOCAL IMMUNITY IN THE MAMMARY GLAND FOLLOWING THE INFUSION OF A STAPHYLOCOCCAL CELL-TOXOID VACCINE.
P M Outteridge R C Williams A K Lascelles
Res Vet Sci 9(5):416-423
Sep 1968 41.8 R312
Agglutination, Bacteria, Immunity, Inflammation, Laboratories, Mammary glands, Research, Staphylococcus.

21282-68
INFLUENCE OF ALDOSTERONE ON PSE PORK MUSCLE. (ABSTRACT).
F L Passbach A M Mullins V K Wipf
J Anim Sci 27(4):1145
Jul 1968 49 J82
Aldosterone, Animal physiology, Biochemistry, Metabolism, Minerals, Muscles, Research, Swine. Abstract presented at 60th annual meeting of A.S.A.S.

21283-68
MODIFICATION OF A STRAIN OF MOUSE-ADAPTED SCRAPIE BY PASSAGE THROUGH RATS.
I H Pattison K M Jones
Res Vet Sci 9(5):408-410
Sep 1968 41.8 R312
Extracellular substances, Histology, Injections, Laboratories, Mice, Rats, Research, Scrapie virus.

21284-68
ENZYME SOURCES AND THEIR VALUE IN BARLEY RATIONS FOR CHICK GROWTH AND EGG PRODUCTION.
C F Petersen E A Sauter
Poultry Sci 47(4):1219-1224
Jul 1968 47.8 AM33P
Animal physiology, Barley, Chicks, Diet, Eggs, Enzymes, Productivity, Research, Tables (data).

21285-68
YOLK AMPROLIUM LEVELS PRODUCED BY GIVING CHICKENS AMPROLIUM IN FEED OR WATER.
D Polin W H Ott E R Wynosky C C Porter
Poultry Sci 47(3):795-799
May 1968 47.8 AM33P
Amprolium, Biochemistry, Chickens, Egg yolks, Feed, Water.

21286-68
FACTORS AFFECTING ZN REQUIREMENT OF CATTLE. (ABSTRACT).
W D Price W H Smith
J Anim Sci 27(4):1174-1175
Jul 1968 49 J82
Animal physiology, Cattle, Digestion, Feeding, In vitro, Research, Zinc. Abstract presented at 60th annual meeting of A.S.A.S

21287-68
BIOCHEMICAL ABBERRATIONS WITH AMMONIA INTOXICATION. (ABSTRACT).

R L Prior A J Clifford W J Visek
J Anim Sci 27(4):1175
Jul 1968 49 J82
Ammonia, Biochemistry, Injections, Liver, Metabolism, Naphthaleneacetic acid dehydrogenase, Rats, Toxicology. Abstract presented at 60th annual meeting of A.S.A.S

21288-68
INFLUENCE OF CALCIUM IN LAYING RATIONS ON SHELL QUALITY AND INTERIOR QUALITY OF EGGS.
C V Reddy P E Sanford R E Clegg
Poultry Sci 47(4):1077-1083 REF
Jul 1968 47.8 AM33P
Calcium, Diet, Economics, Eggs, Metabolism, Physiology, Research.

21289-68
RESPONSE OF BEEF COWS TO EXOGENOUS PROGESTERONE AND ESTRADIOL AT VARIOUS STAGES POSTPARTUM.
S Saiduddin M M Quevedo W D Foote
J Anim Sci
Jul 1968 49 J82
Animal physiology, Cattle, Estradiol, Progesterone, Reproduction, Research.

21290-68
LEVELS OF CARBADOX FOR GROWING-FINISHING SWINE. (ABSTRACT).
J E Shively G W Thrasher C E Askelson W E Babcock
J Anim Sci 27(4):1136
Jul 1968 49 J82
Animal physiology, Biochemistry, Carbadox, Drug therapy, Feed, Research, Swine. Abstract presented at 60th annual meeting of A.S.A.S.

21291-68
ANAEROBIC ENTEROTOXEMIA TREATMENT IN SHEEP. (SP)
D Sinpetru
Rev Zootech Med Vet 8(18):69-71
Aug 1968 49 P943
Anaerobic bacteria, Blood, Enterotoxemia, Research, Sheep.

21292-68
INFLUENCE OF DIETARY IRON ON STEER PERFORMANCE. (ABSTRACT).
J F Standish C B Ammerman F C Neal A Z Palmer C F Simpson
J Anim Sci 27(4):1177
Jul 1968 49 J82
Animal physiology, Biochemistry, Breeding, Cattle, Diet, Drug therapy, Iron. Abstract presented at 60th annual meeting of A.S.A.S.

21293-68
EFFECT OF ESTRADIOL-17 BETA ON OVINE LUTEAL FUNCTION. (ABSTRACT).
F Stormshak H E Kelley H K Hawk
J Anim Sci 27(4):1197
Jul 1968 49 J82
Animal physiology, Corpus luteum, Drug therapy, Estradiol, Injections, Research, Sheep. Abstract presented at 60th annual meeting of A.S.A.S.

21294-68
MILK PRODUCTION OF COWS FED DIETS DEFICIENT IN VITAMIN A.
E W Swanson G G Martin F E Pardue G M Gorman
J Anim Sci 27(2):541-548 REF
Mar 1968 49 J82
Cattle, Deficiency diseases, Diet, Feeding, Milk analysis, Research, Vitamin a.

21295-68
HAEMATOMAS OVER THE MAMMARY VEINS IN COWS.
O Swarbrick
Vet Rec 83(12):305-306
21 Sep 1968 41.8 V641
Dairy cattle, Hemorrhage, Hernia, Mammary glands, Research, Veins.

21296-68
A REPORT OF A SUSPECTED ANTHRAX OUTBREAKS AMONG HUMAN BEINGS IN TARLAC PROVINCE.
J V Tacal R S Peneyra
Philippine J Vet Med 5(1/2,JUN-DEC):31-52
1966 41.8 P53
Anthrax, Diagnosis, Epidemiology, Histology, Human diseases, Livestock, Reports, Research.

21297-68
EFFECTS OF CARBADOX ON PERFORMANCE AND CARCASS TRAITS OF SWINE. (ABSTRACT).
G W Thrasher J E Shively C E Askelson W E Babcock
J Anim Sci 27(4):1137
Jul 1968 49 J82
Animal physiology, Biochemistry, Carbadox, Dosage, Research, Swine. Abstract presented at 60th annual meeting of A.S.A.S.

21298-68
OBSERVATIONS ON THE BACTERIAL FLORA OF THE ALIMENTARY TRACT IN THREE AGE GROUPS OF NORMAL CHICKENS.
L Timms
Brit Vet J 124(10):470-477
Oct 1968 41.8 V643
Bacteria, Chickens, Gastrointestinal system, Research, Tables (data). Spanish, french, and German summary

21299-68
THE EFFECTS OF HIGH LEVELS OF DIETARY EDTA, ZINC OR COPPER ON THE MINERAL CONTENTS OF SOME TISSUE OF TURKEY POULTS.
P Vohra G D Gottfredson F H Kratzer
Poultry Sci 47(4):1334-1343 REF
Jul 1968 47.8 AM33P
Animal nutrition, Copper, Diet, Ethylenediaminetetraacetic acid, Minerals, Tissues, Turkeys, Zinc.

21300-68
SALMONELLA AND TOTAL COUNT REDUCTION IN POULTRY TREATED WITH SODIUM HYPOCHLORITE SOLUTIONS.
C J Wabeck D V Schwall G M Evancho J G Heck A B Rogers
Poultry Sci 47(4):1090-1094 REF
Jul 1968 47.8 AM33P
Biochemistry, Drug therapy, Microbiology, Poultry, Research, Salmonella bacterins, Sodium hypochlorite.

21301-68
EFFECT OF LACTATION ON REPRODUCTIVE PERFORMANCE IN THE EWE. (ABSTRACT).
J F Wagner E L Veenhuizen
J Anim Sci 27(4):1198
Jul 1968 49 J82
Animal physiology, Lactation, Pregnancy, Progesterone, Reproduction, Research, Sheep. Abstract presented at 60th annual meeting of A.S.A.S.

21302-68
THE EVALUATION OF A LOW-GOSSYPOL GLANDLESS COTTONSEED MEAL IN BROILER DIETS.
P W Waldroup E G Keyser V E Tollett T E Bowen
Poultry Sci 47(4):1179-1186 REF
Jul 1968 47.8 AM33P
Animal nutrition, Chickens, Cottonseed meal, Gossypol, Research, Tables (data).

21303-68
PHOTOPERIODISM AS A FACTOR IN FEEDING RHYTHMS OF BROILER CHICKS.
W D Weaver P B Siegel
Poultry Sci 47(4):1148-1154 REF
Jul 1968 47.8 AM33P
Chicks, Feeding, Photoperiodism, Research.

21304-68
STRONTIUM METABOLISM IN CHICKS.
C W Weber A R Doberenz R W G Wyckoff B L Reid
Poultry Sci 47(4):1318-1323 REF
Jul 1968 47.8 AM33P
Animal physiology, Calcium, Chicks, Diet, Feed, Metabolism, Research, Strontium.

21305-68
THE DEVELOPMENT OF THE CAPACITY FOR SYSTEMIC ANAPHYLACTIC SHOCK IN THE CHICKEN.
H H Weetail
Poultry Sci 47(4):1073-1076 REF
Jul 1968 47.8 AM33P
Anaphylaxis, Animal physiology, Antibodies, Antigens, Chicks, Immunization, Research.

21306-68
UREA TOXICITY STUDIES WITH THE PREGNANT BOVINE. (ABSTRACT).
J D Word D L Williams L C Martin E I Williams R J Panciera T E Nelson K L Byrd A D Tillman
J Anim Sci 27(4):1180
Jul 1968 49 J82
Animal physiology, Cattle, Pregnancy, Research, Toxicology, Urea. Abstract presented at 60th annual meeting of A.S.A.S.

21307-68
OBSERVANTIONS ON A POISONING CASE IN SHEEP GRAZED ON NITROGEN TREATED PASTURES. (SP)
P Zottu
Rev Zootech Med Vet 8(18):72-74
Aug 1968 49 P943
Nitrogen, Pastures, Poisoning, Research, Sheep.

21308-68
STUDIES ON THE ZINC REQUIREMENT OF BEEF CATTLE. (ABSTRACT).
T D Zurcher W m Beeson
J Anim Sci 27(4):1181
Jul 1968 49 J82
Animal nutrition, Animal physiology, Cattle, Diet, Research, Zinc. Abstract presented at 60th annual meeting of A.S.A.S.

DISEASES

21309-68
NEUTRALIZING ANTIBODIES TO ADENOVIRUS IN INFECTIOUS HEPATITIS.
J Alwen F Fulton
J Trop Med Hyg 71(10):247-251
Oct 1968 448.8 J827
Adenoviruses, Antibodies, Hepatitis, Human diseases, Infectious diseases, Virus diseases (animals).

21310-68
INFLUENCE OF DUST AND AMMONIA ON THE DEVELOPMENT OF AIR SAC LESIONS IN TURKEYS.
D P Anderson R R Wolfe F L Cherms W E Roper
Amer J Vet Res 29(5):1049-1058
May 1968 41.8 AM3A
Air sacs, Ammonia, Dust (soil), Livestock diseases, Physiology, Turkeys.

21311-68
EXPERIMENTAL REPRODUCTION OF CANINE INTERSTITIAL NEPHRITIS.
L J Anderson
J Comp Pathol 77(4):413-418 REF
Oct 1967 41.8 J82
Animal diseases, Dogs, Laboratories, Nephritis, Reproduction, Research.

21312-68
HOG CHOLERA AND OTHER COMMUNICABLE SWINE DISEASES. NOTICE OF PROPOSED RULE MAKING.
R J Anderson
Fed Regist 33(226):17180-17183
20 Nov 1968 L1.451

Breeding, Feeding, Hog cholera, Infectious diseases, Livestock diseases, Swine.

21313-68
COMPARATIVE EFFICACY OF COMMERIAL FOWL CHOLERA BACTERINS AND AUTOGENOUS BACTERIN IN WHITE LEGHORN HENS ARTIFICIALLY INFECTED WITH PASTEURELLA MULTOCIDA.
B W Bierer T H Eleazer
Paultry Sci 47(4):1162-1165
Jul 1968 47.8 AM33P
Animal diseases, Autogenous bacterins, Bacterins, Chickens, Dosage, Fowl cholera, Injections, Pasteurella multocida, Research.

21314-68
GROSS LESIONS OBSERVED IN TURKEYS INFECTED WITH FOWL CHOLERA VIA THE DRINKING WATER.
B W Bierer
Paultry Sci 47(4):1365
Jul 1968 47.8 AM33P
Animal diseases, Fowl cholera, Pasteurella, Research, Turkeys, Water.

21315-68
INDUCTION OF EXPERIMENTAL TETANY IN CATTLE. (ABSTRACT).
V R Bohman G Harding D L Grunes A L Lesperance
J Anim Sci 27(4):1161
Jul 1968 49 J82
Aconitic acid, Animal physiology, Cattle, Feed, Grass tetany, Livestock diseases, Research. Abstract presented at 60th annual meeting of A.S.A.S.

21316-68
DURATION OF IMMUNITY AGAINST NEWCASTLE DISEASE IN BIRDS VACCINATED WITH BPL INACTIVATED VACCINE.
P G Box D A Barr B I Helliwell A Aperghis
Vet Rec 83(13):332-333
28 Sep 1968 41.8 V641
Antibodies, Birds, Blood analysis, Hemagglutination, Immunity, Immunization, Newcastle disease, Newcastle diseasc vaccines, Research, Virus diseases (animals).

21317-68
UTERINE INFECTION AND CORPUS LUTEUM LIFESPAN IN THE EWE. (ABSTRACT).
T H Brinsfield D K Higginbotham H W Hawk
J Anim Sci 27(4):1188
Jul 1968 49 J82
Animal physiology, Corpus luteum, Escherichia coli, Estrus, Livestock diseases, Sheep, Uterus. Abstract presented at 60th annual meeting of A.S.A.S.

21318-68
SPREAD OF SCRAPIE BY CONTACT TO GOATS AND SHEEP.
J G Brotherston C C Renwick J T Stamp I Zlotnik I H Pattison
J Camp Pathal 78(1):9-17 REF
Jan 1968 41.8 J82
Goats, Infectious diseases, Livestock diseases, Scrapie, Sheep.

21319-68
THE CAUSES OF GASTRIC ULCERS IN PIGS. (FR)
Bur Nutr Anim Elev (P589):3P
Feb 1968 389.79 B89
Feed, Feeding, Gastric juice, Hydrogen-ion concentration, Livestock diseases, Respiratory diseases, Swine, Ulcers. The complete report is number P582.

21320-68
ELECTRON MICROSCOPIC STUDIES OF QUAIL BRONCHITIS VIRUS.
S K Butta B S Pomeroy
Amer J Vet Res 28(122):296-299
Jan 1967 41.8 AM3A
Chicken embryo lethal orphan virus, Electron microscopy, Quail bronchitis virus, Research, Respiratory diseases.

21321-68
PROPAGATION OF ICH VIRUS IN SWINE-LUNG TISSUE CULTURE. PATENT 3,399,113.
V J Cabasso
Us Patent Office Offic Gaz 853(4):1065
27 Aug 1968 156.65 OF2
Antigens, Culture media, Dogs, Infectious canine hepatitis, Kidneys, Lungs, Patents, Swine, Viral vaccines, Virology.

21322-68
SEROLOGIC DETECTION OF A VIRUS OF TRANSMISSIBLE GASTROENTERITIS OF SWINE AND DETERMINATION OF ITS NUCLEIC ACID TYPE.
E Caletti M Ristic A A V Lehmden-Maslin
Amer J Vet Res 29(8):1603-1612 REF
Aug 1968 41.8 AM3A
Gastroenteritis, Intestines, Nucleic acids, Serological tests, Swine, Virus diseases (animals).

21323-68
THE RESPONSE OF COMMERCIAL EGG PRODUCTION STOCKS TO EXPERIMENTAL INFECTION WITH EIMERIA TENELLA AND ITS RELATION TO FIELD MORTALITY.
J R Challey T K Jeffers W H McGibbon
Paultry Sci 47(4):1197-1204
Jul 1968 47.8 AM33P
Animal diseases, Economics, Eggs, Eimeria tenella, Injections, Mortality, Productivity, Research.

21324-68
PATHOGENOUS STRENGTH OF A STRAIN OF HERPESVIRUS BOVIS IN A NEW-BORN CALF, INFECTED THROUGH THE AIR. (FR)
A Charton A Parodi P Faye C Le Layec
Acad Vet France Bull 41(2):69-76
Feb 1968 41.9 R24
Bacteriology, Cattle, Herpesviruses, Infectious diseases, Septicemia, Virology, Virus diseases (animals).

21325-68
THE CLINICAL FEATURES OF GUTTURAL POUCH MYCOSIS IN THE HORSE.
W R Cook
Vet Rec 83(4):336-345
05 Oct 1968 41.8 V641
Diagnosis, Horses, Laboratories, Livestock diseases, Mycosis, Respiration.

21326-68
EQUINE DISTEMPER EPIDEMIC IN FRANCE (1965-67) VIROLOGICAL STUDY.
P Cottereau J C Proy R Sohier M Henry
Acad Vet France Bull 40(8):427-430
Oct 1967 41.9 R24
Antibodies, Canine distemper, Epidemiology, Hemagglutination, Serological tests, Virology, Virus diseases (animals).

21327-68
EXPERIMENTAL TRICHOPHYTON VERRUCOSUM INFECTIONS IN LABORATORY ANIMALS.
W A Cox J A Moore
J Camp Pathal 78(1):35-41 REF
Jan 1968 41.8 J82
Animal diseases, Fungus diseases (animals), Laboratories, Laboratory animals, Research, Trichophyton verrucosum.

21328-68
CLINICAL PATHOLOGIC FEATURES OF ACUTE AFLATOXICOSIS OF SWINE.
S J Cysewski A C Pier G W Engstrom J L Richard R W Dougherty
Amer J Vet Res 29(8):1577-1590 REF
Aug 1968 41.8 AM3A
Aflatoxicosis, Laboratories, Liver, Livestock diseases, Properties, Swine.

21329-68
RESEARCH ABOUT A POLYVALENT TREATMENT OF SERIOUS MASTITIS. (FR
A Darras P. Sorel
Soc Vet Prat France Bull Mens 52(3):155-162
Mar 1968 41.9 SO12
Adrenal cortex hormones, Animal diseases, Antibiotics, Assay, Corynebacterium, Drug therapy, Mastitis, Research, Staphylococcus.

21330-68
ISOLATION OF MYCOPLASMA FROM CALF LUNGS.
G Davies
J Comp Pathol 77(4):253-357
Oct 1967 41.8 J82
Cattle, Livestock diseases, Lungs, Mycoplasma, Pneumonia.

21331-68
SOME DISTRIBUTIONAL FEATURES OF THE FOOT AND MOUTH EPIDEMIC.
W K D Davies G B Lewis H A Randall
Nature 219(5150):121-125 MAP
13 Jul 1968 472 N21
Epidemiology, Foot-and-mouth disease, Geography, Livestock diseases, Weather.

21332-68
CONTRIBUTION TO THE STUDY OF THE CALCIUM, OF THE NUTRITION AND OF THE CHEMISTRY IN CATTLE INFECTED WITH VIRUS FEVER. (FR
B Dellac
Lyan Ecale Nat Vet These 31:45P.
25 May 1967 41.2 L99
Biological assay, Calcium, Cattle, Fever, Nutrition, Research, Serological tests, Virus diseases (animals).

21333-68
SALINE INJECTIONS IN THE TREATMENT OF SEVERE CASES OF SCOUR IN YOUNG SUCKLED CALVES.
J Dickson
Vet Rec 83(17):428-433
26 Oct 1968 41.8 V641
Cattle, Injections, Livestock diseases, Saline water, Scours, Therapcutics.

21334-68
STUDIES ON THE ACTIVITY OF MOTION OF MINKS. (GE)
H Eichel
Arch Exp Veterinarmed 21(4):1113-1115
Sep 1967 41.8 EX7
Animal cages, Behaviorism, Environment, Minks, Researeh. English and Russian summaries

21335-68
EFFECT OF LIVING REV. I. VACCINE IN PRODUCING LONG-TERM IMMUNITY AGAINST BRUCELLA MELITENSIS INFECTION IN SHEEP IN IRAN.
F Entessar A Ardalan A Ehadi L M Jones
J Camp Pathol 77(4):367-376
Oct 1967 41.8 J82
Bacteria, Brucella melitensis, Immunity, Livestock diseases, Sheep, Vaccines.

21336-68
EFFECT OF CHRONIC RESERPINE ON METABOLISM AND CHEMICAL CONSTITUENTS OF TURKEY TESTIS.
L L Ewing R D Montgomery D M Baldwin R F Clegg J F Tierce M A Maloney J C Gilbreath
Nature 214(5094):1267-1268 REF
17 Jun 1967 472 N21
Chemicals, Chronic respiratorv disease, Culture media, Metabolism, Morphology, Physiology, Reserpine, Turkeys.

21337-68
FUNCTIONAL AND STRUCTURAL EFFECTS OF MAGNESIUM DEFICIENCY AND CORTISONE TREATMENT IN MICE.
D R Farnell
Amer J Vet Res 29(8):1695-1706 REF
Aug 1968 41.8 AM3A
Anatomy, Cortisone, Deficiency diseases, Diet, Magnesium, Mice, Tissues.

21338-68
CLINICAL AND SEROLOGICAL RESPONSES OF THE CALF INOCULATED IN VARIOUS WAYS (GENITAL, OCULAR, PULMONARY) WITH A STRAIN OF HERPESVIRUS ISOLATED FROM A PNEUMONIA LESION OF A CALF. (FR)
P Faye A Charton C Le. Layee
Acad Vet France Bull 41(2):77-81
Feb 1968 41.9 R24
Aging, Animal physiology, Cattle, Herpesviruses, Immunity, Injections, Livestoek diseases, Pneumonia, Researeh, Serologieal tests.

21339-68
ANTISERUM FOR TOMATO SPOTTED WILT VIRUS.
J M Feldman J A Boninsegna
Nature 219(5150):183-184
13 Jul 1968 472 N21
Antigens, Antiserum, Aztec tobaeeo, Nieotiana glutinosa, Proteins, Researeh, Sap, Spotted wilt (tomatoes), Tobaeeo, Tomatoes, Viruses.

21340-68
THE PASSAGE OF STAPHYLOCOCCI THROUGH THE BOVINE TEST CANAL.
D Forbes
J Dairy Res 35(3):399-406
Oet 1968 44.8 J823
Baeteria, Cattle, Culture media, Injeetions, Milk analysis, Staphyloeoeeus aureus.

21341-68
ACTIVITY OF SORBITOL DEHYDROGENASE (S.D.) IN THE SERUM OF SHEEP AND CATTLE WITH LIVER DAMAGE.
E J H Ford
J Comp Pathol 77(4):405-411 REF
Oet 1967 41.8 J82
Blood, Cattle, Dehydrogenases, Glueitol, Kidneys, Liver, Physiology, Sheep.

21342-68
MINERAL AND CHLORTETRACYCLINE SUPPLEMENTATION TO ALL-CONCENTRATE NPN SUPPLEMENTED FEEDLOT RATIONS. (ABSTRACT).
R D Furr K R Hansen J A Carpenter L B Sherrod
J Anim Sci 27(4):1111
Jul 1968 49 J82
Antibiotics, Cattle, Chlortetraeyeline, Food additives, Minerals, Researeh. Abstraet presented at meeting of A.S.A.S., July 7-9, 1968, moseow, Idaho.

21343-68
ACUTE AND CHRONIC ERYSIPELOTHRIX RHUSIOPATHIAE INFECTION IN WHITE MICE.
H D Geissinger
J Comp Pathol 78(1):79-88 REF
Jan 1968 41.8 J82
Animal diseases, Blood, Erysipelothrix insidiosa, Miee.

21344-68
THE EVALUATION OF A TEAT-DIPPING FORMULATION OF CHLORHEXIDINE.
E L Gerring R Hall A J Sandoe
Vet Rec 83(5):112-115
03 Aug 1968 41.8 V641
Chlorhexidine, Dairy eattle, Dipping, Livestoek diseases, Mastitis, Milk, Teats.

21345-68
THE EFFECT OF DIFFERENT LEVELS OF VITAMIN A ON THE ANTERIOR PITUITARY OF YOUNG BULLS.
S Ghannam M Fayez O S Khadr H Al-Alily
Res Vet Sci 9(5):481-485 REF
Sep 1968 41.8 R312
Animal histology, Bulls, Cells, Deficieney diseases, Pituitary gland, Researeh, Vitamin a.

21346-68
DETECTION OF ANTIBODIES TO MYCOBACTERIUM JOHNEI BY IMMUNOFLUORESCENCE.
N J L Gilmour A C Gardiner
J Comp Pathol 78(1):107-113
Jan 1968 41.8 J82
Animal diseases, Antibodies, Fluoreseenee, Immunology, Johne's disease, Mycobaeterium johnei.

21347-68
TRANSFER OF ROUS VIRUS GENOME FROM RAT TUMOUR CELLS TO CHICK CELLS AT HIGH TEMPERATURE.
M Grofova D Simkovic
Neoplasma 15(3):225-230
1968 41.8 N353
Cells, Chiek embryos, Culture media, Neoplasms, Rats, Researeh, Rous assoeiated viruses, Temperature, X-rays. Russian and German summary

21348-68
THREE CLINICAL CASES OF EOSINOPHILIC ENTERITIS.
C L Hall
Southwest Vet 21(1,FALL):41-42
1967 41.8 SO82
Animal diseases, Diagnosis, Enteritis, Eosinophils, Histology, Research.

21349-68
IMMUNOFLUORESCENCE AS A DIAGNOSTIC PROCEDURE IN LUNGWORM DISEASE OF THE CAT.
J M Hamilton R J Roberts
Vet Rec 83(16):401-403
19 Oet 1968 41.8 V641
Cats, Diagnosis, Fluoreseent antibody teehnie, Immunity, Lungs, Verminous bronehitis.

21350-68
ON IMMUNOPRECIPITATION IN SWINE PLAGUE. III PRECIPITATION ELECTROPHORESIS AS AN ACCELERATED METHOD FOR THE DISTINGUISHING OF SERA OF HEALTHY PIGS AND PIGS AFFECTED WITH SWINE PLAGUE. (GE)
H Hantsehel
Arch Exp Veterinarmed 21(5):1131-1145 REF
Nov 1967 41.8 EX7
Eleetrophoresis, Immunization, Livestoek diseases, Serologieal tests, Swine, Swine plague. English summary

21351-68
ACTION OF DISINFECTANTS ON EXPERIMENTAL MOUSE SCRAPIE.
E G Hartley
Nature 213(5081):1135
18 Mar 1967 472 N21
Animal diseases, Animal histology, Antisepties, Formaldehyde, Heat, Injeetions, Laboratory animals, Miee, Nervous system, Serapie.

21352-68
COMPLEMENT-FIXATION MICROPROCEDURES FOR ANAPLASMOSIS.
R J Hidalgo G T Dimopoullos
Amer J Vet Res 28(122):245-251
Jan 1967 41.8 AM3A
Anaplasmosis, Antigens, Blood serum, Complement fixation, Serologieal tests, Volumetrie analysis.

21353-68
NEWCASTLE DISEASE IN A FLOCK OF JAPANESE QUAILS.
D A Higgins
Vet Rec 83(17):437-440
26 Oet 1968 41.8 V641
Animal diseases, Neweastle disease, Quail.

21354-68
HYPOMAGNESEMIC TETANY AND MAGNESIUM HOMEOSTASIS IN THE ADULT BOVINE.
C A Hjerpe
Southwest Vet 21(1,FALL):33-39 REF
1967 41.8 SO82
Cattle, Chemieals, Epidemiology, Hypomagnesemia, Magnesium, Researeh, Tetany.

21355-68
SKIN TUMORS IN THE DOG. (DU)
J Hoorens H Thoonen
Vlaam Diergeneesk Tijdschr 37(5):231-244 REF
May 1968 41.8 V84
Animal diseases, Carcinoma, Dogs, Mammary glands, Neoplasms, Reproductive organs, Skin diseases. English, Freneh summary.

21356-68
EXPERIMENTAL BOVINE INFECTIOUS KERATOCONJUNCTIVITIS CAUSED BY SUNLAMP IRRADIATION AND MORAXELLA BOVIS INFECTION: DETERMINATION OF OPTIMAL IRRADIATION.
D E Hughes G W Jr. Pugh T J MeDonald
Amer J Vet Res 29(4):821-827
Apr 1968 41.8 AM3A
Baeteria, Cattle, Infectious diseases, Irradiation, Keratoconjunctivitis, Lighting, Livestoek diseases, Moraxella bovis, Researeh.

21357-68
EXPERIMENTAL BOVINE INFECTIOUS KERATOCONJUNCTIVITIS CAUSED BY SUNLAMP IRRADIATION AND MORAXELLA BOVIS INFECTION: RESISTANCE TO RE-EXPOSURE WITH HOMOLOGOUS AND HETEROLOGOUS MORAXELLA BOVIS.
D E Hughes G W Jr. Pugh T J MeDonald
Amer J Vet Res 29(4):829-833
Apr 1968 41.8 AM3A
Bacteria, Cattle, Immunity, Infeetious diseases, Irradiation, Keratoeonjunetivitis, Lighting, Livestoek diseases, Moraxella bovis, Researeh.

21358-68
THE IMPORTATION OF DISEASE TO BRITAIN BY WILD ANIMALS.
A D Irvin
Vet Rec 83(16):396-401 REF
19 Oet 1968 41.8 V641
Animal diseases, Foreign trade, Human diseases, Wildlife.

21359-68
SCABIES IN SHEEP. INTERSTATE MOVEMENT.
G W Irving
Fed Regist 33(239):18276
10 Dee 1968 L1.451
Infectious diseases, Livestoek diseases, Scabies, Sheep.

21360-68
THE RESULTS OF APPLYING THE CHINESE STRAIN OF THE LAPINIZED SWINE FEVER VIRUS WITHOUT THE SPECIFIC SERUM FOR VACCINATION OF PIGS IN INDUSTRIAL FATTENING HOUSES. (PO)
H Janowski J Walezak
Med Wet 24(7):388-392 REF
Jul 1968 41.8 M463
Animal diseases, Hog eholera virus, Immunity, Immunization, Researeh, Serum, Swine, Virus diseases (animals). English summary and Russian.

21361-68
RELATIONSHIP BETWEEN SEVERITY OF ANEMIA AND PLASMA ERYTHROPOIETIN TITER IN ANAPLASMA-INFECTED CALVES AND SHEEP.
P R Jatkar J P Kreier
Amer J Vet Res 28(122):107-113 REF
Jan 1967 41.8 AM3A
Anaplasma, Anemia, Blood proteins, Calves, Livestoek diseases, Sheep, Volumetric analysis.

21362-68
THE DISTRIBUTION OF NERVES, MONOAMINE OXIDASE AND CHOLINESTERASE IN THE SKIN OF POULTRY.
D Jenkinson P S Blackburn
Res Vet Sci 9(5):429

Sep 1968 41.8 R312
Cholinesterases, Histology, Monoamine oxidase, Nerves, Poultry, Research, Skin diseases.

21363-68
IMMUNIZATION OF CATTLE AGAINST RABIES WITH THE KELEV STRAIN VACCINE.
E Kalmar A Tadmor
Res Vet Sci 9(5):424
Sep 1968 41.8 R312
Blood analysis, Cattle, Immunization, Rabies, Research, Serological tests, Serum.

21364-68
SOME BIOCHEMICAL ASPECTS OF MOUSE SCRAPIE.
R H Kimberlin O C Millson
J Comp Pathol 77(4):359-366 REF
Oct 1967 41.8 J82
Animal diseases, Biochemistry, Mice, Nervous system, Scrapie, Sheep.

21365-68
FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. BUQUINOLATE.
J K Kirk
Fed Regist 33(218):16334
07 Nov 1968 L1.451
Animal diseases, Animals, Biochemistry, Buquinolate, Chemical control (insects), Coccidiosis, Eimeria brunetti, Feed, Food additives, Water.

21366-68
COMPARATIVE FLUORESCENCE-IMMUNOLOGICAL AND CYTOPATHOLOGICAL STUDIES WITH VARIOUS VIRUS STRAINS OF THE MUCOSAL DISEASE OF CATTLE. (GE)
R Kokles D Urbaneck H Liebermann
Arch Exp Veterinarmed 21(5):1295-1304 REF
Nov 1967 41.8 EX7
Cattle, Fluorescence, Immunity, Mucosal disease, Research, Virus diseases (animals). English and Russian summaries

21367-68
PREVENTION AND TREATMENT OF SWINE DYSENTERY. (ABSTRACT).
E T Kornegay J W Davis H R Thomas
J Anim Sci 27(4):1134
Jul 1968 49 J82
Animal diseases, Biochemistry, Carbadox, Drug therapy, Feed, Research, Swine dysentery. Abstract presented at 60th annual meeting of the A.S.A.S.

21368-68
THE HYDRAZIDE OF ISONICOTINIC ACID IN PREVENTING AND TREATMENT OF TUBERCULOSIS IN MINKS. (PO)
T Kubinski
Med Wet 24(7):402-403
Jul 1968 41.8 M463
Animal diseases, Drug therapy, Hydrazides, Isoniazid, Minks, Tables (data), Tuberculosis.

21369-68
PATHOGENESIS AND PATHOLOGY OF INFECTION IN CALVES WITH STRAINS OF REOVIRUS TYPES 1 AND 2.
P H Lamont J H Darbyshire P S Dawson A R Omar A R Jennings
J Comp Pathol 78(1):23-33 REF
Jan 1968 41.8 J82
Cattle, Livestock diseases, Reoviruses, Virus diseases (animals).

21370-68
A BACTERIOLOGIC STUDY OF PATHOGENIC STAPHYLOCOCCUS STRAINS TAKEN ON DOG. (FR)
R Lautie M F Geral
Rev Med Vet (toulouse) 31(6):545-563 REF
Jun 1968 41.8 R32
Animal diseases, Bacteriology, Dermatosis, Dogs, Research, Serological tests, Staphylococcus. English summary.

21371-68
DUCK PLAGUE IN AMERICAN ANSERIFORMES.
L Leibovitz J Hwang
Wildlife Dis Ass Bull 4(1):13-14
Jan 1968 41.9 W64B
Ducks, Epidemiology, Mortality, Research, Virus diseases (animals).

21372-68
PSEUDOCOWPOX IN GERMANY. (GE)
H Liebermann P Schulze Ht Liebermann
Arch Exp Veterinarmed 21(6):1419-1433 REF
Dec 1967 41.8 EX7
Cytology, Electron microscopy, Morphology, Nucleic acids, Pseudocowpox, Rabbits, Stomatitis, Virus diseases (animals). Summary in English and Russian

21373-68
DIFFERENTIAL DIAGNOSIS OF BOVINE STOMATITIS OF VIRAL ORIGIN. (GE
H Liebermann
Arch Exp Veterinarmed 21(6):1399-1418 REF
Dec 1967 41.8 EX7
Cattle, Cells, Culture media, Cytology, Diagnosis, Morphology, Stomatitis, Virus diseases (animals). Summary in English and Russian

21374-68
COMPARATIVE IMMUNOHISTOLOGICAL STUDIES. (GE)
H Liebermann
Arch Exp Veterinarmed 21(6):1379-1389 REF
Dec 1967 41.8 EX7
Cattle, Cells, Culture media, Fluorescence, Histology, Immunology, Lumpy skin disease, Pseudocowpox, Research, Serological tests, Vaccinia virus, Virus diseases (animals). Summary in English and Russian

21375-68
A STUDY OF THE STOMATITIS PAPULOSA VIRUS USING CELL CULTURES. (GE)
H Liebermann
Arch Exp Veterinarmed 21(6):1353-1377 REF
Dec 1967 41.8 EX7
Cattle, Cells, Culture media, Cytology, Inclusion bodies, Stomatitis, Temperature, Vaccinia virus, Virus diseases (animals). Summary in English and Russian

21376-68
THE INFECTION SPECTRUM OF THE STOMATITAS PAPULOSA VIRUS. (GE
H Liebermann
Arch Exp Veterinarmed 21(6):1337-1351 REF
Dec 1967 41.8 EX7
Antibodies, Cattle, Cells, Culture media, Diagnosis, Inclusion bodies, Injections, Laboratory animals, Research, Stomatitis, Virus diseases (animals). Summary in English and Russian

21377-68
PROPAGATION AND TRANSMISSION OF HOG CHOLERA VIRUS IN NONPORCINE HOSTS.
R W Loan M M Storm
Amer J Vet Res 29(4):807-811 REF
Apr 1968 41.8 AM3A
Antibodies, Birds, Hog cholera virus, Infectious diseases, Laboratory animals, Rodents, Swine, Virus diseases (animals).

21378-68
REMARKS CONCERNING THE INFECTION OF FRANCE BY LYMPHOID CATTLE LEUKOCYTOSIS.
C Lombard
Acad Vet France Bull 40(8):411-418
Oct 1967 41.9 R24
Cattle, Epidemiology, Leukocytosis, Research, Tables (data).

21379-68
HEMATOLOGICAL DETECTION OF LYMPHOID LEUKOCYTOSIS OF CATTLE IN GERS.
C Lombard F Dupin
Acad Vet France Bull 40(8):407-410
41.9 R24
Animal diseases, Cattle, Geography, Hematology, Leukocytosis, Slaughterhouses.

21380-68
THE STICKER SARCOMA. (FR)
C Lombard P Cabanie
Rev Med Vet (toulouse) 31(6):565-586 REF
Jun 1968 41.8 R32
Animal diseases, Dogs, Drug therapy, Electron microscopy, Histochemistry, Immunity, Research, Sarcoma. English summary

21381-68
DRYING-OFF THERAPY FOR BOVINE MASTITIS: A COMPARATIVE FIELD TRIAL.
R M Loosmore D Howell A D Adams D N Barnett T F F Barr
Vet Rec 83(4):358-
05 Oct 1968 41.8 V641
Dairy cattle, Drying, Livestock diseases, Mammary glands, Mastitis, Research, Therapeutics.

21382-68
EFFECTS OF TEMPERATURE AND TIME ON THE INFECTIVITY OF ANAPLASMA MARGINALE AFTER TREATMENT WITH PROTECTIVE ADDITIVES.
J N Love B L Valentine J W Scales
Amer J Vet Res 28(122):51-54 REF
Jan 1967 41.8 AM3A
Anaplasma marginale, Culture media, Erythrocytes, Glycerol, Infectious diseases, Temperature, Time.

21383-68
CLINICAL AND SEROLOGIC RESPONSES IN VACCINATED SHEEP GIVEN CHALLENGE INOCULATION WITH ISOLATES OF BLUETONGUE VIRUS.
A J Luedke M M Jochim
Amer J Vet Res 29(4):841-851 REF
Apr 1968 41.8 AM3A
Bluetongue virus, Injections, Serological tests, Sheep, Vaccines, Virus diseases (animals).

21384-68
GLYCOSIDASE HISTOCHEMISTRY IN NORMAL AND SCRAPIE MICE, RATS, SHEEP AND GOATS.
A Mackenzie G C Millson A M Wilson
J Comp Pathol 78(1):43-52 REF
Jan 1968 41.8 J82
Animal diseases, Glycosidases, Goats, Histochemistry, Mice, Rats, Scrapie, Sheep.

21385-68
THE HAEMATOLOGICAL EXAMINATIONS AND THEIR ROLE IN THE DIAGNOSIS OF CATTLE LEUCOSIS. (SP)
N Manolescu Z Sirbu Gh Turculet
Rev Zootech Med Vet 8(18):41-48
Aug 1968 49 P943
Animal diseases, Blood analysis, Cattle, Diagnosis, Research. French and Russian summary

21386-68
FRACTIONATED DIROFILARIA IMMITIS ANTIGENS FOR THE DIFFERENTIAL DIAGNOSIS OF CANINE FILARIASIS.
A Mantovani I G Kagen
Amer J Vet Res 28(122):213-217 REF
Jan 1967 41.8 AM3A
Antigens, Dipetalonema, Dirofilaria immitis, Dogs, Filariasis, Parasitism.

21387-68
THE FATE OF ASCARIS LUMBRICOIDES LINNAEUS, 1758 IN CHICKS (GALLUS GALLUS DOMESTICUS).
M F Manuel R D Turk
Philippine J Vet Med 5(1/2 JUN-DEC):53-69 REF
1966 41.8 P53
Ascaris lumbricoides, Chicks, Gastrointestinal system, Infectious diseases, Larvae, Research.

21388-68
A STUDY ON THE HELMINTH FAUNA OF PHILIPPINE GOATS.

M F Manuel C L Madriaga
Philippine J Vet Med 5(1/2,JUN-DEC):79-85
1966 41.8 P53
Goats, Helminthiasis, Insect identification, Insect names, Parasitic insects, Research.

21389-68
CONTRIBUTION TO THE STUDY OF VIREMIA IN SHEEP INNOCULATED WITH THE VIRUS OF FOOT-AND-MOUTH DISEASE.
B Mastan C Dubouclard
Acad Vet France Bull 40(8):419-426
Oct 1967 41.9 R24
Blood analysis, Foot-and-mouth disease virus, Injections, Research, Sheep, Viremia, Virus diseases (animals).

21390-68
EFFECTS OF INCREASED FLOW OF PULMONARY BLOOD ON PULMONARY VASCULAR RESISTANCE AND STRUCTURE IN CALVES.
J D McCrady H S Rosenberg G L Hallman D G McNamara
Amer J Vet Res 29(8):1539-1547 REF
Aug 1968 41.8 AM3A
Blood, Cattle, Circulatory system, Physiology.

21391-68
INCIDENCE OF INTRAMAMMARY INFECTIONS DURING LACTATION IN DAIRY CATTLE REPEATEDLY EXPOSED TO STREPTOCOCCUS AGALACTIAE AND AEROBACTER AEROGENES.
J S McDonald R A Packer
Amer J Vet Res 29(8):1525-1532 REF
Aug 1968 41.8 AM3A
Aerobacter aerogenes, Dairy cattle, Livestock diseases, Mammary glands, Streptococcus agalactiae.

21392-68
CIRCLING DISEASE IN SHEEP: A CASE STUDY REVEALS NEW KNOWLEDGE ON LISTERIOSIS.
J W McDonald
J Agr 66(PT 2):299-301
Aug 1968 23 V660J
Animal diseases, Environment, Histology, Infectious diseases, Listeriosis, Research, Sheep.

21393-68
COMPARISON OF EXAMINATION AND TEST METHODS FOR EARLY DETECTION OF PARATUBERCULOSIS CATTLE.
R S Merkal A B Larsen K E Kopecky R D Ness
Amer J Vet Res 29(8):.1533-1538 REF
Aug 1968 41.8 AM3A
Cattle, Diagnosis, Johne's disease, Livestock diseases, Mycobacterium paratuberculosis.

21394-68
EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL; OR INTRAVENOUS INOCULATION: HISTOCHEMICAL LOCALIZATION OF DEHYDROGENASE ACTIVITIES.
R S Merkal W S Monlux J P Kluge A B Larsen K E Kopecky L Y Quinn R P Lehmann
Amer J Vet Res 29(5):971-984 REF
May 1968 41.8 AM3A
Dehydrogenases, Histochemistry, Injections, Johne's disease, Mouth, Research, Sheep, Trachea, Veins.

21395-68
EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATION: HISTOCHEMICAL LOCALIZATION OF HYDROLASE ACTIVITIES.
R S Merkal J P Kluge W S Monlux A B Larsen K E Kopecky L Y Quinn R P Lehmann
Amer J Vet Res 29(5):985-994 REF
May 1968 41.8 AM3A
Histochemistry, Hydrolases, Injections, Johne's disease, Mouth, Research, Sheep, Trachea, Veins.

21396-68
EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATIONS SEROLOGIC AND INTRADERMAL TESTS.
R S Merkal A B Larsen K E Kopecky J P Kluge W S Monlux R P Lehmann L Y Quinn
Amer J Vet Res 29(5):953-962 REF
May 1968 41.8 AM3A
Injections, Johne's disease, Mouth, Research, Serological tests, Sheep, Skin tests, Trachea, Veins.

21397-68
CONCENTRATION AND PURIFICATION OF NEWCASTLE DISEASE VIRUS.
H C Minocha R A Consigli A Eisenstark
Amer J Vet Res 29(4):877-882
Apr 1968 41.8 AM3A
Chickens, Isotopes, Newcastle disease virus, Phosphorus, Research, Virus diseases (animals).

21398-68
SEROLOGICAL RESPONSES OF HORSES IMMUNIZED WITH LIVE ATTENUATED AFRICAN HORSE SICKNESS VACCINE.
H Mirchamsy H Taslimi
J Comp Pathol 77(4):431-438
Oct 1967 41.8 J82
African horse sickness, Animal diseases, Horses, Immunization, Serological tests, Vaccines.

21399-68
DETERMINATION OF THE DOSAGE-RESPONSE CURVE OF MICE INOCULATED WITH SCRAPIE.
D L Mould A M Dawson W Smith
J Comp Pathol 77(4):387-391 REF
Oct 1967 41.8 J82
Animal diseases, Dosage, Injections, Mice, Scrapie.

21400-68
RELATIONSHIPS BETWEEN CHEMICAL CHANGES AND HISTOLOGICAL DAMAGE IN THE BRAINS OF SCRAPIE AFFECTED MICE.
D L Mould A M Dawson J S Slater I Zlotnik
J Comp Pathol 77(4):393-403 REF
Oct 1967 41.8 J82
Animal diseases, Brain, Chemistry, Histology, Mice, Scrapie.

21401-68
UNSUCCESSFUL STUDIES IN THE DIALYSIS OF THE MOUSE SCRAPIE AGENT.
D L Mould A M Dawson
J Comp Pathol 78(1):115-120
Jan 1968 41.8 J82
Animal diseases, Dialysis, Mice, Research, Scrapie.

21402-68
ZIERIA ARBORESCENS (STINKWOOD) INTOXICATION IN CATTLE.
B L Munday
Australian Vet J 44(11):501-502 REF
Nov 1968 41.8 AU72
Animal physiology, Cattle, Lungs, Poisoning, Poisonous plants, Pulmonary edema, Zieria arborescens.

21403-68
LABORATORY DIAGNOSIS AND TREATMENT OF INFECTIOUS MASTITIS IN DAIRY COWS. (SP)
A Nicolescu E Galusca C Corbescu M Nicolescu
Rev Zootech Med Vet 8(18):49
Aug 1968 49 P943
Bacteriology, Dairy cattle, Infectious diseases, Mastitis, Research.

21404-68
OSTEODYSTROPHIC DISEASES OF SHEEP. III. DENTAL MAL-OCCLUSION IN YOUNG SHEEP.
D I Nisbet E J Butler J M Robertson C C Bannatyne
J Comp Pathol 78(1):73-77 REF
Jan 1968 41.8 J82
Livestock diseases, Mouth, Sheep.

21405-68
THE TIME COURSE OF SYNTHESIS OF VIRUS-SPECIFIC PROTEIN IN PIG-KIDNEY CELLS AFTER INFECTION WITH THE FOOT-AND-MOUTH DISEASE VIRUS. (GE)
A F Olechnowitz R Kokles
Arch Exp Veterinarmed 21(6):1461-1468 REF
Dec 1967 41.8 EX7
Cells, Fluorescence, Foot-and-mouth disease virus, Immunology, Proteins, Swine, Time, Virus diseases (animals). Summary in English and Russian

21406-68
EXPERIMENTAL PRODUCTION OF THE CRANIAL FORM OF FOWL CHOLERA IN TURKEYS.
L D Olson E L McCune
Amer J Vet Res 29(8):1665-1673
Aug 1968 41.8 AM3A
Fowl cholera, Livestock diseases, Pasteurella multocida, Research, Skull, Turkeys.

21407-68
BRUCELLOSIS. CHANGES IN LIST OF PUBLIC STOCKYARDS.
R E Omohundro
Fed Regist 33(233):17848
30 Nov 1968 L1.451
Brucellosis, Indexing, Livestock diseases, Nomenclature, Stockyards.

21408-68
PROGRESS IN THE CONTROL OF BRUCELLOSIS.
J Pasfield
Roy Ass Brit Dairy Farmers J 72:44-49
1968 44.9 B77
Agricultural outlook, Animal diseases, Brucellosis, Cattle, Foot-and-mouth disease, Research, Vaccines.

21409-68
THE EFFECT OF STILBESTROL ON THE MOBILIZATION OF LIPOPROTEINS IN THE BLOOD SERUM OF COCKS. (GE)
J Pavel A Babak B Svozil
Arch Exp Veterinarmed 21(5):1209-1215
Nov 1967 41.8 EX7
Animal physiology, Blood, Diethylstilbestrol, Poultry, Proteins. English and Russian summaries

21410-68
THE FACE FLY, A LIVESTOCK PEST.
J T Pennell
Wash State Univ Ext Serv E M 2947:2P.
May 1968 275.29 W270M1
Biochemistry, Chemical control (insects), Feed additives, Insect morphology, Livestock, Metamorphosis, Methodology, Musca autumnalis, Ronnel, Spraying.

21411-68
ANTIGENIC RELATIONSHIP BETWEEN INFLUENZA A VIRUSES OF HUMAN AND AVAIN ORIGINS.
H G Pereira B Tumova R G Webster
Nature 215(5104):982-983
26 Aug 1967 472 N21
Antigens, Biochemistry, Birds, Horses, Human diseases, Influenza, Rats, Swine, Viruses.

21412-68
CYTOPATHOLOGIC CHANGES OF LYMPHATIC TISSUES OF CATTLE WITH THE BOVINE VIRUS DIARRHEA-MUCOSAL DISEASE COMPLEX.
C P Peter J R Duncan D E Tyler F K Ramsey
Amer J Vet Res 29(5):939-948 REF
May 1968 41.8 AM3A
Bovine virus diarrhea virus, Cattle, Cytology, Lymphatic system, Mucosal disease, Tissues, Virus diseases (animals).

21413-68
PATHOGENESIS AND PATHOLOGY IN CALVES OF INFECTION BY BEDSONIA ALONE AND BY BEDSONIA AND REOVIRUS TOGETHER.

J I H Phillip A R Omar V Popovici P H Lamont J H Darbyshire
J Comp Pathol 78(1):89-99 REF
Jan 1968 41.8 J82
Bedsonia virus, Cattle, Reoviruses, Virus diseases (animals).

21414-68
IN VITRO POTENCY TESTS FOR ANTI-HOG CHOLERA ANTIBODIES: A TEST FOR ANTI-HOG CHOLERA SERUMS AND A TEST FOR HERD EXPOSURE.
C E Phillips
Amer J Vet Res 29(5):1097-1102
May 1968 41.8 AM3A
Antibodies, Culture media, Fluorescent antibody technic, Hog cholera, Hog cholera vaccines, Livestock diseases, Research, Swine.

21415-68
IMMUNOLOGIC PROPERTIES OF CANINE TRANSMISSIBLE VENEREAL SARCOMA.
R D Powers
Amer J Vet Res 29(8):1637-1645 REF
Aug 1968 41.8 AM3A
Animal diseases, Antibodies, Dogs, Immunity, Neoplasms, Properties, Sarcoma.

21416-68
IN VIVO EFFECTS OF CANINE LYMPHOSARCOMA DEOXYRIBONUCLEIC ACID.
J E Prier J Roszel P H Craig D F Cain
Amer J Vet Res 28(122):183-189 REF
Jan 1967 41.8 AM3A
Deoxyribonucleic acid, Dogs, Injections, Laboratory animals, Lymphosarcoma, Neoplasms, Research.

21417-68
POTENCY OF AN ATTENUATED CANINE DISTEMPER VACCINE DERIVED FROM CHICK EMBRYO CELL CULTURES.
J Prydie
Res Vet Sci 9(5):453-457
Sep 1968 41.8 R312
Canine distemper vaccines, Chick embryos, Culture media, Dogs, Ferrets, Histology, Research, Virus diseases (animals).

21418-68
EXPERIMENTAL BOVINE INFECTIOUS KERATOCONJUNCTIVITIS CAUSED BY SUNLAMP IRRADIATION AND MORAXELLA BOVIS INFECTION: CORRELATION OF HEMOLYTIC ABILITY AND PATHOGENICITY.
G W Jr. Pugh D E Hughes
Amer J Vet Res 29(4):835-839
Apr 1968 41.8 AM3A
Bacteria, Cattle, Infectious diseases, Irradiation, Keratoconjunctivitis, Lighting, Livestock diseases, Moraxella bovis, Research.

21419-68
ON THE DIAGNOSIS OF EQUINE TUBERCULOSIS. III. TUBERCULIN TESTS MADE ON EXPERIMENTALLY INFECTED HORSES. (GE)
W Richter
Arch Exp Veterinarmed 21(5):1235-1246
Nov 1967 41.8 EX7
Diagnosis, Horses, Research, Tuberculin test, Tuberculosis. English and Russian summaries

21420-68
ANAPLASMOSIS. XX. ELECTRON MICROSCOPY OF THE CAUSATIVE AGENT STAINED BY THE NEGATIVE CONTRAST TECHNIQUE.
M Ristic
Amer J Vet Res 28(122):63-70 REF
Jan 1967 41.8 AM3A
Anaplasmosis, Anatomy, Electron microscopy, Erythrocytes, Livestock diseases, Parasitism, Research.

21421-68
MECHANISM OF EGG TRANSMISSION OF MYCOPLASMA GALLISEPTICUM.
D H Roberts J W McDaniel
J Comp Pathol 77(4):439-442
Oct 1967 41.8 J82
Eggs, Livestock diseases, Mycoplasma gallisepticum, Poultry.

21422-68
OBSERVATIONS ON EXPERIMENTAL ACUTE FASCIOLIASIS IN SHEEP.
H E Roberts
Brit Vet J 124(10):433-450
Oct 1968 41.8 V643
Animal diseases, Blood serum, Fascioliasis, Laboratories, Research, Sheep, Tables (data), Trematoda. German and French summary

21423-68
CLINICAL-DIAGNOSTICAL LIVER EXAMINATIONS IN ACETONEMIA (KETOSIS) OF CATTLE. (GE)
N Rossow
Arch Exp Veterinarmed 21(4):1005-1013 REF
Sep 1967 41.8 EX7
Cattle, Diagnosis, Ketosis, Laboratories, Liver, Livestock diseases, Research. English and Russian summaries

21424-68
BUOYANT DENSITY OF AFRICAN HORSESICKNESS VIRUS.
B Russell
Nature 215(5104):983-984
26 Aug 1967 472 N21
African horse sickness virus, Biochemistry, Density, Infectious diseases, Lipids, Viruses.

21425-68
HAMSTER ASCITES TUMOR CELL LINE BHK 21/C.13/T.6/ASCITES USEFUL IN SUBMERGED SERUM-FREE AGAR CULTURES TO SUPPORT VIRUS GROWTH. (PATENT 3,418,210).
F K Sanders
Us Patent Office Offic Gaz 857(4):1225
24 Dec 1968 156.65 OF2
Agar, Ascites, Cells, Culture media, Hamsters, Neoplasms, Patents, Viruses.

21426-68
INDUCTION OF TUMOURS IN HAMSTERS WITH INFECTIOUS CANINE HEPATITIS VIRUS.
P Sarma W Vass R J Huebner H Igel W T Lane H C Turner
Nature 215(5098):293-294 REF
15 Jul 1967 472 N21
Antigens, Complement fixation, Culture media, Hamsters, Infectious canine hepatitis virus, Neoplasms, Research.

21427-68
IN UTERO INFECTION OF BOVINE FETUSES WITH MYXOVIRUS PARAINFLUENZA-3.
S A Sattar E H Bohl A L Trapp A H Hamdy
Amer J Vet Res 28(122):45-49
Jan 1967 41.8 AM3A
Cattle, Fetal death, Livestock diseases, Lungs, Myxovirus parainfluenza-3, Veterinary medicine.

21428-68
THE REMARKS ON ENZOOTIC PSEUDOTUBERCULOSIS IN NUTRIA. (PO)
W Scheuring
Med Wet 24(7):406-407
Jul 1968 41.8 M463
Animal diseases, Nutria, Pseudotuberculosis, Research.

21429-68
PLAQUE MORPHOLOGY OF NEWCASTLE DISEASE VIRUS AS INFLUENCED BY CELL TYPE AND ENVIRONMENTAL FACTORS.
G Schloer R P Hanson
Amer J Vet Res 29(4):883-895 REF
Apr 1968 41.8 AM3A
Cells, Environment, Morphology, Newcastle disease virus, Research, Virus diseases (animals).

21430-68
ELECTRON MICROSCOPIC DETECTION OF AN AVIAN TUMOR VIRUS IN MONONUCLEAR CELLS FROM THE BLOOD OF CHICKENS WITH EXPERIMENTAL OSTEOPETROSIS. (GE)
P Schulze K Vogel
Arch Exp Veterinarmed 21(6):1537-1541 REF
Dec 1967 41.8 EX7
Avian tumor virus, Blood, Cells, Chickens, Electron microscopy, Morphology, Osteopetrosis, Virus diseases (animals). Summary in English and Russian

21431-68
THE POSSIBILITIES AND LIMITS OF SWINE DISEASE DIAGNOSTICS BASED ON CLINICAL EXAMINATIONS. (PO)
W Schulze
Med Wet 24(7):412-414
Jul 1968 41.8 M463
Diagnosis, Laboratory animals, Livestock diseases, Research, Swine.

21432-68
INVESTIGATIONS INTO THE QUESTION OF THE OCCURRENCE OF DIFFERENT TYPES OF LYMPHOCYTES IN CATTLE WITH PARTICULAR REFERENCE TO ENZOOTIC LEUKOSIS. (GE)
H Seils
Arch Exp Veterinarmed 21 1087-1097 REF
Sep 1967 41.8 EX7
Cattle, Leukosis, Livestock diseases, Lymphocytes, Research. English and Russian summaries

21433-68
RECOVERY OF VIRUS FROM BULLS AFFECTED WITH FOOT-AND-MOUTH DISEASE.
R F Sellers R Burrows J A Mann P Dawe
Vet Rec 83(12):303
21 Sep 1968 41.8 V641
Animal vectors, Bulls, Diagnosis, Foot-and-mouth disease, Research, Semen, Virus diseases (animals).

21434-68
THREE CASES OF METRITIS.
A G Shearer
Vet Rec 83(13):333-334
28 Sep 1968 41.8 V641
Animal diseases, Diagnosis, Dogs, Metritis, Ovaries, Uterus.

21435-68
EXPERIMENTAL AFLATOXICOSIS IN YOUNG SWINE.
D B Sisk W W Carlton T M Curtin
Amer J Vet Res 29(8):1591-1602 REF
Aug 1968 41.8 AM3A
Aflatoxicosis, Liver, Livestock diseases, Research, Swine.

21436-68
THE INVESTIGATIONS ON INCREASING THE SPECIFICITY OF THE COMPARATIVE TUBERCULIN TEST. (PO)
A Spryszak C Zorawski
Med Wet 24(7):397-401
Jul 1968 41.8 M463
Animal diseases, Birds, Cattle, Research, Tuberculin test, Tuberculosis. English, French, Russian, German summaries

21437-68
A BRUCELLA AGGLUTINATION SCREENING TEST.
C Staak C M Groocock
Vet Rec 83(4):349-351
05 Oct 1968 41.8 V641
Agglutination, Brucella, Cattle, Livestock diseases, Pleuropneumonia, Serological tests.

21438-68
CHEMOTHERAPY OF RENAL LEPTOSPIROSIS IN SWINE.
O H V Stalheim

Amer J Vet Res 28(122):161-166 REF
Jan 1967 41.8 AM3A
Drug therapy, Kidneys, Leptospira pomona, Leptospirosis, Livestock diseases, Swine.

21439-68
INFLUENCE OF DIETARY SUGAR ON GROWTH OF CANDIDA ALBICANS IN THE PORCINE DIGESTIVE TRACT AND LESIONS IN THE ESOPHAGEAL AREA OF THE STOMACH.
M A Stedham D C Kelley E H Coles
Amer J Vet Res 28(122):153-159 REF
Jan 1967 41.8 AM3A
Candida albicans, Diet, Esophagus, Growth factors, Livestock diseases, Sugars, Swine.

21440-68
THE ALEUTIAN DISEASE IN MINKS- PLASMOCYTOSIS. III. (po)
J Steffen R Sander-Wachowicz E Szaflarska-Stojko
Med Wet 24(7):403-405
Jul 1968 41.8 M463
Aleutian disease, Animal diseases, Cytology, Histology, Iodine, Minks, Research.

21441-68
INFECTIVITY FOR CATTLE AND PIGS OF THREE STRAINS OF FOOTAND-MOUTH DISEASE VIRUS ISOLATED FROM CARRIER CATTLE.
P Sutmoller P Auge de Mello M N Honigman K E Federer
Amer J Vet Res 28(122):101-105
Jan 1967 41.8 AM3A
Animal vectors, Cattle, Epizootic diseases, Foot-and-mouth disease virus, Swine, Volumetric analysis.

21442-68
THE STERILIZING EFFECT AGAINST BACILLUS SUBTILIS SPORES OF HYDROGEN PEROXIDE AT DIFFERENT TEMPERATURES AND CONCENTRATIONS.
P Swartling B Lindgren
J Dairy Res 35(3):423
Oct 1968 44.8 J823
Bacillus subtilis, Culture media, Hydrogen peroxide, Research, Sterilization, Temperature.

21443-68
THE ISOLATION AND COMPARATIVE BIOLOGICAL AND PHYSICAL CHARACTERISTICS OF T-MYCOPLASMAS OF CATTLE.
D Taylor-Robinson M H Williams D A Haig
J Gen Microbiol 54(PT 1):33-46 REF
Nov 1968 448.3 J823
Biology, Cattle, Mycoplasma, Physiology, Urogenital system.

21444-68
A SURVEY OF CATTLE SERA FROM KENYA AND UGANDA FOR ANTIBODIES TO BOVINE VIRUS DIARRHOEA VIRUS.
W P Taylor C S Rampton
Vet Rec 83(5):121-124 REF
03 Aug 1968 41.8 V641
Antibodies, Bovine virus diarrhea virus, Cattle, Kidneys, Serum, Virus diseases (animals).

21445-68
GROWTH AND NUTRITIONAL REQUIREMENTS OF TWO SEROTYPES OF OVINE VIBRIO FETUS.
G J Tritz J E Ogg
Amer J Vet Res 28(122):115-122 REF
Jan 1967 41.8 AM3A
Amino acids, Culture media, Growth factors, Nutrition, Sodium thiosulfate, Vibrio fetus.

21446-68
PHYSICAL AND CHEMICAL CONDITIONS INDUCING THE COCCOID FORM OF OVINE VIBRIO FETUS.
G J Tritz J E Ogg
Amer J Vet Res 28(122):123-129 REF
Jan 1967 41.8 AM3A
Culture media, Growth factors, Hydrogen-ion concentration, Sodium thiosulfate, Temperature, Vibrio fetus.

21447-68
ON REGULARITIES IN THE OCCURRENCE OF RABIES DRESDEN COUNTY. A CONTRIBUTION TO THE EPIZOOTOLOGY OF RABIES. (GE)
F Ulbrich
Arch Exp Veterinarmed 21(4):1073-1085 MAP REF
Sep 1967 41.8 EX7
Animal diseases, Epidemiology, Rabies, Research, Time. English and Russian summaries

21448-68
CLINICAL AND PATHOLOGICAL ASPECTS OF HOG CHOLERA IN GRIEVOUS PIGS BELOW NORMAL PHYSICALLY. (GE)
D Urbaneck R Kokles D Schmidt E Wittmann H Bergmann
Arch Exp Veterinarmed 21(6):1443-1459 REF
Dec 1967 41.8 EX7
Animal physiology, Diagnosis, Diet, Grain, Hog cholera, Swine, Virus diseases (animals). Summary in English and Russian

21449-68
THE BEHAVIOR OF MACRONUCLEOLAR AND POLYNUCLEOLAR LYMPHOCYTES IN BOVINE LEUKOSIS. (GE)
D Urbaneck W Wittmann
Arch Exp Veterinarmed 21(6):1469-1476 REF
Dec 1967 41.8 EX7
Animal diseases, Blood, Cattle, Leukocytosis, Lymphocytosis. Summary in English and Russian

21450-68
ON THE ISOLATION OF SOME STRAINS OF THE MIYAGAWANELLA PSITTACI VIRUS. (FR)
J Virat A Vallee J C Guillon L Chaumont
Acad Vet France Bull 40(9):433-440
Nov 1967 41.9 R24
Diagnosis, Miyagawanella group viruses, Ornithosis, Research, Serological tests.

21451-68
AN OBSERVATION ON FELINE INFECTIOUS PERITONTIS.
J M Ward R J Munn D H Gribble D L Dungworth
Vet Rec 83(16):416-417
19 Oct 1968 41.8 V641
Cats, Infectious diseases, Peritonitis, Research, Virus diseases (animals).

21452-68
INACTIVATED CULTURE VACCINE AGAINST MYCOPLASMA GALLISEPTICUM INFECTION IN CHICKENS.
J Warren L B Senterfit F Sieiro
Amer J Vet Res 29(8):1659-1664
Aug 1968 41.8 AM3A
Air sacs, Chickens, Culture media, Livestock diseases, Mycoplasma gallisepticum, Vaccines.

21453-68
COMPLEMENT-FIXATION TEST FOR LOUPING ILL IN SHEEP.
H E Williams
Amer J Vet Res 29(8):1619-1624
Aug 1968 41.8 AM3A
Antibodies, Complement fixation, Livestock diseases, Louping ill, Sheep.

21454-68
ELECTRON MICROSCOPIC STUDIES ON VESICULAR EXANTHEMA OF SWINE VIRUS: INTRACYTOPLASMIC VIRAL CRYSTAL FORMATION IN CULTURED PIG KIDNEY CELLS.
Y C Zee A J Hackett S H Madin
Amer J Vet Res 29(5):1025-1032 REF
May 1968 41.8 AM3A
Culture media, Cytoplasm, Electron microscopes, Kidneys, Research, Swine, Vesicular exanthema virus (swine), Virus diseases (animals).

21455-68
SPREAD OF SCRAPIE BY CONTACT IN MICE.
I Zlotnik
J Comp Pathol 78(1):19-22
Jan 1968 41.8 J82
Animal diseases, Infectious diseases, Mice, Scrapie.

ARTHROPODS

21456-68
THE FACE FLY, MUSCA AUTUMNALIS... A NEW LIVESTOCK FLY IS NOW MOVING TOWARD CALIFORNIA.
J R Anderson J H Poorbaugh
Calif Agr 22(3):4-6
Mar 1968 100 C12CAG
Biological control (insects), Chemical control (insects), Ecology, Insect pests, Livestock, Management, Musca autumnalis, Research.

21457-68
STUDIES ON THE APPLICATION TO CATTLE OF THE LOW-TOXICITY 32P-LABELED PHOSPHONIC ACID ESTER BUTONATE. (GE)
W Dedek Hh Schwarz
Arch Exp Veterinarmed 21(4):1023-1030 REF
Sep 1967 41.8 EX7
Butonate, Cattle, Isotopes, Milk, Phosphoric acid esters, Phosphorus, Research. English and Russian summaries

21458-68
BEEF CATTLE DIPPING PROGRAM IN SOUTHEASTERN, IDAHO. (ABSTRACT).
E P Duren
J Anim Sci 27(4):1105
Jul 1968 49 J82
Biochemistry, Cattle, Chemical control (insects), Dipping, Economics, Insect pests, Insecticides, Methodology. Abstract presented at meeting of A.S.A.S., July 7-9, 1968, moscow, Idaho.

21459-68
HORN FLY AND GRUB CONTROL ON BEEF CATTLE...TESTING SEVERAL NEW INSECTICIDES.
W H Johnson E C Loomis
Calif Agr 21(10):12-14
Oct 1967 100 C12CAG
Beef cattle, Chemical control (insects), Grubs, Haematobia irritans, Insect pests, Insecticides.

21460-68
EFFICACY OF HOMOLOGOUS ANTIGENS AND COUMAPHOS. COMPARATIVE EFFECTS AGAINST THE CATTLE GRUBS HYPODERMA SPP., AND A DISCUSSION OF COUMAPHOS TOXICITY.
M A Khan
Vet Rec 83(4):345-349 REF
05 Oct 1968 41.8 V641
Antigens, Cattle, Coumaphos, Hypoderma lineatum, Insect control, Insecticides.

21461-68
FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. FAMPHUR.
J K Kirk
Fed Regist 33(213):15996
31 Oct 1968 L1.451
Agricultural products, Animals, Biochemistry, Cattle, Chemical control (insects), Famphur, Feed, Food additives, Water.

21462-68
TICK PARALYSIS IN CALIFORNIA LIVESTOCK.
E C Loomis R B Bushnell
Amer J Vet Res 29(5):1089-1093 MAP REF
May 1968 41.8 AM3A
Dermacentor occidentalis, Insect vectors, Livestock, Livestock diseases, Tick paralysis.

21463-68
DOMESTIC QUARANTINE NOTICES. GYPSY MOTH AND BROWN-TAIL MOTH. I. QUARANTINE AND REGULATIONS. II. REGULATED AREAS. III. EXEMPTIONS.
D R Shepherd R J Anderson
Fed Regist 33(229,PT.1 AND 2):17341-17346
23 Nov 1968 L1.451
Animal quarantine, Insect pests, Nygmia phaeorrhoea, Porthetria dispar.

PARASITES

21464-68
CELLULAR RESPONSE OF CALVES TO FIRST-GENERATION SCHIZONTS OF EIMERIA BOVIS AFTER TREATMENT OF CALVES WITH SULFAMETHAZINE AND LINCOMYCIN HYDROCHLORIDE.
A Arakawa A C Todd
Amer J Vet Res 29(8):1549-1559 REF
Aug 1968 41.8 AM3A
Cattle, Cells, Coccidiosis, Eimeria bovis, Lincomycin, Sulfamethazine.

21465-68
EFFECT OF COCCIDIAL INFECTION UPON PASSAGE RATES OF DIGESTIVE TRACT CONTENTS OF CHICKS.
M V Aylott O H Vestal J F Stephens D E Turk
Poultry Sci 47(3):900-904
May 1968 47.8 AM33P
Chickens, Coccidiosis, Digestion, Gastrointestinal system, Livestock diseases, Parasitism.

21466-68
ANTHELMINTIC ACTIVITY OF TWO ORGANIC PHOSPHORUS COMPOUNDS, COUMAPHOS AND NAPHTHALOPHOS, AGAINST GASTROINTESTINAL NEMATODES OF CATTLE.
D D Cox M T Mulee A D Allen
Amer J Vet Res 28(122):79-88 REF
Jan 1967 41.8 AM3A
Anthelmintics, Cattle, Cooperia, Coumaphos, Gastrointestinal diseases, Haemonchus, Naphthalophos, Nematodiasis, Ostertagia, Phosphorus compounds.

21467-68
PATHOPHYSIOLOGY OF FASCIOLIASIS IN THE RABBIT. STUDIES ON ALBUMIN TURNOVER.
J D Dargie P H Holmes J M McLean W Mulligan
J Comp Pathol 78(1):101-105 REF
Jan 1968 41.8 J82
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Drug therapy, Nematodes, Preventive medicine, Research, Swine, Veterinary medicine.

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Animal diseases, Coumaphos, Goats, Naphthalophos, Nematodes, Parasitism.

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Biochemistry, Chickens, Coccidiosis, Drug therapy, Eimeria acervulina, Eimeria brunetti, Eimeria maxima, Eimeria necatrix, Eimeria tenella, Meticlorpindol.

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Agricultural economics, Lambs, Livestock diseases, Parasitism, Research, Therapeutics.

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Anthelmintics, Feed, Hyostrongylus rubidus, Livestock diseases, Nematodes, Parasitism, Swine, Thiazolyl)-benzimidizole, 2-(4-.

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Brucellosis, Hydrogen-ion concentration, Milk analysis.

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Chemical reactions, Herbicide residues, Herbicides, Hydrolysis, Infrared spectra, Montmorillonite, Soil adsorption, Triazine, Water.

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Absorption, Butonate, Cattle, Dichlorvos, Dimethoate, Insecticide residues, Insecticides, Organic compounds, Phosphorus isotopes, Trichlorfon, Udders.

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Fed Regist 33(234):17927-17928
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Agricultural products, Biochemistry, Chemicals, Meat, Milk, Pesticides, Rotenonc.

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Biochemistry, Insecticide residues, Methoxychlor, Milk, Milk analysis.

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Biochemistry, Citrus, Pesticide residues, Soils, Temik.

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Agricultural products, Biochemistry, Insecticide residues, Methyl parathion, Parathion, Seedlings, Sunflowers.

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J K Kirk
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Dimethoate, Insecticides, Lemons, Oranges, Oxygen, Pesticide residues, Plant protection.

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Cattle, Chemicals, Ethion, Insecticides, Meat, Milk, Pesticide residues.

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Arsenic, Eggs, Meat, Poultry, Residues, Swine, Tissues.

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Antibiotics, Penicillin, Residues, Swine, Tissues, Urine.

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Aflatoxin, Animal abnormalities, Hamsters, Mice, Mortality, Pregnancy, Rats, Toxicology.

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Chickens, Eggs, Herbicide residues, Paraquat, Toxicology.

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Antigens, Bacteria, Bush redpeppers (vegetable), Culture media, Injections, Rabbits, Reports, Research, Serological tests, Tomatoes, Xanthomonas vesicatoria.

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Biochemistry, Herbicides, Plant physiology, Proteins, Simazine.

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Experimental aflatoxicosis in young swine.
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Serological responses of horses immunized with live attenuated African horse sickness vaccine.
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21338

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